TRC
230 West Monroe Street
Suite 2370
Chicago, IL 60606
Main 312.578.0870
Fax 312.578.0877

rec'd 5/25/11 ack'd

Transmittal

To: Jim Baumann / WDNR
Jean Greensley / USEPA Region V

Date: **May 23, 2011**

Project No.: **107927**

Project: **HARP OU2L & OU3**

We have enclosed (1) copy of:

X Prints ☐ Reproducible ☐ Reports ☐ Letter

☐ Specifications ☐ Memorandum ☐ [Other]

Description	Rev. #	Date
Reach I (West Bank) Sample Results and Excavation Boundaries (24"x36")		05/23/2011
Reach I (East Bank) Sample Results and Excavation Boundaries (24"x36")		05/23/2011
Figure 1 – Proposed Post-Remedial Verification Samples – Reach I (11"x17")		05/23/2011
Figure - Lower OU2 & OU3 Tech Memo - Reach I (11"x17")		02/15/2006

Sent Via:

☐ Messenger ☐ 1st Class Mail X FedEx ☐ [Other]

TRC

Paymon Danesh

RI-231+50-N10	
0-6	26.000
6-12	32.000
12-24	0.320
24-36	NA
36-48	NA

RI-231+30-S50	
0-6	47.000
6-12	11.000
12-20	3.200
20-24	NA

RI-231+30-N40	
0-6	18.000
6-12	2.800
12-18	NA
18-26	NA

RI-231+30-N60	
0-6	25.000
6-12	1.900
12-24	< 0.039
24-36	NA

BEGIN REACH J
END REACH I

RI-231+30-N10	
0-6	31.000
6-12	83.000
12-18	0.180

RI-231+10-N10	
0-6	23.000
6-12	94.000
12-24	0.320
24-36	NA
36-48	NA

RI-229+10-N60	
0-6	34.000
6-12	1.000
12-24	0.310
24-36	NA

RI-229+10-N40	
0-6	27.000
6-12	0.870
12-18	0.054 Q
18-25	NA

RI-227+50-N70	
0-6	68.000
6-12	0.370
12-24	0.060 Q
24-36	NA

RI-231+30-S10	
0-6	16.000
6-12	36.000
12-27	0.340
27-30	NA

RI-229+10-N10	
0-6	31.000
6-12	8.100
12-20	3.300

RI-227+50-N55	
0-6	48.000
6-12	0.280
12-24	0.067 Q
24-36	NA

RI-226+00-N140	
0-6	16.000
6-12	0.180
12-24	NA

RI-227+50-N40	
0-6	28.000
6-12	1.500
12-18	8.400
18-23	20.000

RI-231+30-S80	
0-6	33.000
6-12	0.130 Q
12-18	0.950
18-28	NA

RI-231+30-S25	
0-6	92.000
6-12	7.600
12-21	0.180

RI-227+50-N10	
0-6	32.000
6-12	130.000
12-20	3.200

RI-226+00-N120	
0-6	18.000
6-12	0.035 Q
12-24	NA
24-33	NA

RI-226+00-N100	
0-6	28.000
6-12	1.300
12-24	1.100

RI-229+10-S10	
0-6	7.300
6-12	33.000
12-21	1.600
21-27	NA

RI-227+70-N10	
0-6	24.000
6-12	0.310
12-24	0.430
24-36	NA
36-48	NA

RI-227+30-N10	
0-6	53.000
6-12	6.300
12-24	0.170
24-36	NA
36-48	NA

RI-225+90-N50	
0-6	22.000
6-12	0.610
12-18	0.750

RI-229+10-S40	
0-6	11.000
6-12	4.100
12-24	NA

RI-227+50-S10	
0-6	43.000
6-12	1.500
12-24	0.910

RI-229+10-S75	
0-6	1.500
6-12	0.180
12-24	NA
24-40	NA

RI-225+90-S5	
0-6	6.500
6-12	12.000
12-21	2.500
21-27	NA

RI-225+90-N10	
0-6	14.000
6-12	16.000
12-24	0.500

RI-227+50-S40	
0-6	9.300
6-12	0.830
12-18	NA
18-27	NA

RI-226+50-N10	
0-6	21.000
6-12	10.000
12-24	< 0.038
24-33	NA

RI-225+90-S20	
0-6	19.000
6-12	0.560
12-27	0.250

RI-225+90-S50	
0-6	2.300
6-12	0.490
12-21	NA
21-28	NA

RI-224+50-E10	
0-6	0.810
6-12	NA
12-20	NA

RI-220+80-N40	
0-6	30.000
6-12	1.000
12-18	3.700
18-28	NA

RI-226+00-S100	
0-6	1.400
6-12	0.045 Q
12-24	NA

RI-221+00-S30	
0-6	48.000
6-12	0.160
12-18	1.800
18-24	NA

RI-220+80-N10	
0-6	31.000
6-12	1.800
12-27	0.500

RI-224+00-W40	
0-6	17.000
6-12	0.260
12-18	NA
18-29	NA

RI-224+00-W10	
0-6	58.000
6-12	18.000
[illegible]	[illegible]
24-36	0.210

RI-219+50-E30	
0-6	1.800
6-18	1.900
18-21	NA

RI-222+30-N40	
0-6	57.000
6-12	0.160
12-18	0.130 Q
18-25	NA

RI-219+50-E60	
0-6	6.800
6-12	0.540
12-21	NA

RI-222+30-N10	
0-6	16.000
6-12	35.000
12-24	6.500
24-30	< 0.038

BEGIN REACH I
END REACH H

RI-221+60-S10	
0-6	12.000
6-12	12.000
12-21	12.000
21-27	< 0.034

RI-221+00-S10	
0-6	19.000
6-12	45.000
12-24	15.000
24-33	< 0.037

RI-221+60-S25	
0-6	1.600
6-12	0.280
12-20	NA

RI-219+50-E10	
0-6	11.000
6-12	30.000
12-18	8.500
18-27	< 0.043

RI-221+60-S50	
0-6	1.400
6-12	0.260
12-24	NA

RI-218+50-N10	
0-6	17.000
6-12	18.000
12-18	2.600

RI-218+50-S40	
0-6	4.600
6-12	< 0.039
12-18	NA
18-26	NA

RI-218+50-S60	
0-6	41.000
6-12	< 0.040
12-18	0.093 Q
18-33	NA

RI-218+50-S10	
0-6	13.000
6-12	0.360
12-20	NA
20-27	NA

LEGEND

CENTERLINE OF CREEK

SAMPLE LOCATION	
DEPTH IN INCHES	TOTAL PCBs mg/kg

NRT 2005 SOIL SAMPLE LOCATION AND RESULT

RE-125+00-W50 (ET)	0.320

EARTH TECH 2003 SOIL SAMPLE LOCATION AND RESULT

DATA QUALIFIERS:

≥ 50.0	SOIL CONCENTRATIONS THAT ARE EQUAL TO OR GREATER THAN 50.0 mg/kg ARE SHOWN IN RED
≥ 25.0 TO < 50.0	SOIL CONCENTRATIONS THAT ARE GREATER THAN OR EQUAL TO 25.0 BUT LESS THAN 50.0 mg/kg ARE SHOWN IN BLUE
≥ 5.0 TO < 25.0	SOIL CONCENTRATIONS THAT ARE GREATER THAN OR EQUAL TO 5.0 BUT LESS THAN 25.0 mg/kg ARE SHOWN IN GREEN
< 5.0	SOIL CONCENTRATIONS THAT ARE LESS THAN 5.0 mg/kg ARE SHOWN IN BLACK
NA	NOT ANALYZED
Q	ANALYTE DETECTED BELOW THE LIMIT OF QUANTITATION

N

0 50 100

SCALE IN FEET

SOURCE NOTES:

1. THIS DRAWING WAS DEVELOPED FROM A DRAWING IN THE OU2/L & OU3 SAP.
2. ORIGINAL SAMPLE LOCATIONS SURVEYED SEPTEMBER 2005 BY AERO-METRIC, INC. CHILTON, WISCONSIN.
3. STEP-OUT LOCATIONS WERE FIELD MEASURED BY TRC AND NATURAL RESOURCE TECHNOLOGY PERSONNEL DURING OCTOBER AND NOVEMBER 2005. THESE MEASUREMENTS ARE BASED OFF OF THE SURVEYED POINT LOCATIONS.

FIGURE NO. 28

PROJECT NO. 1778/1.6

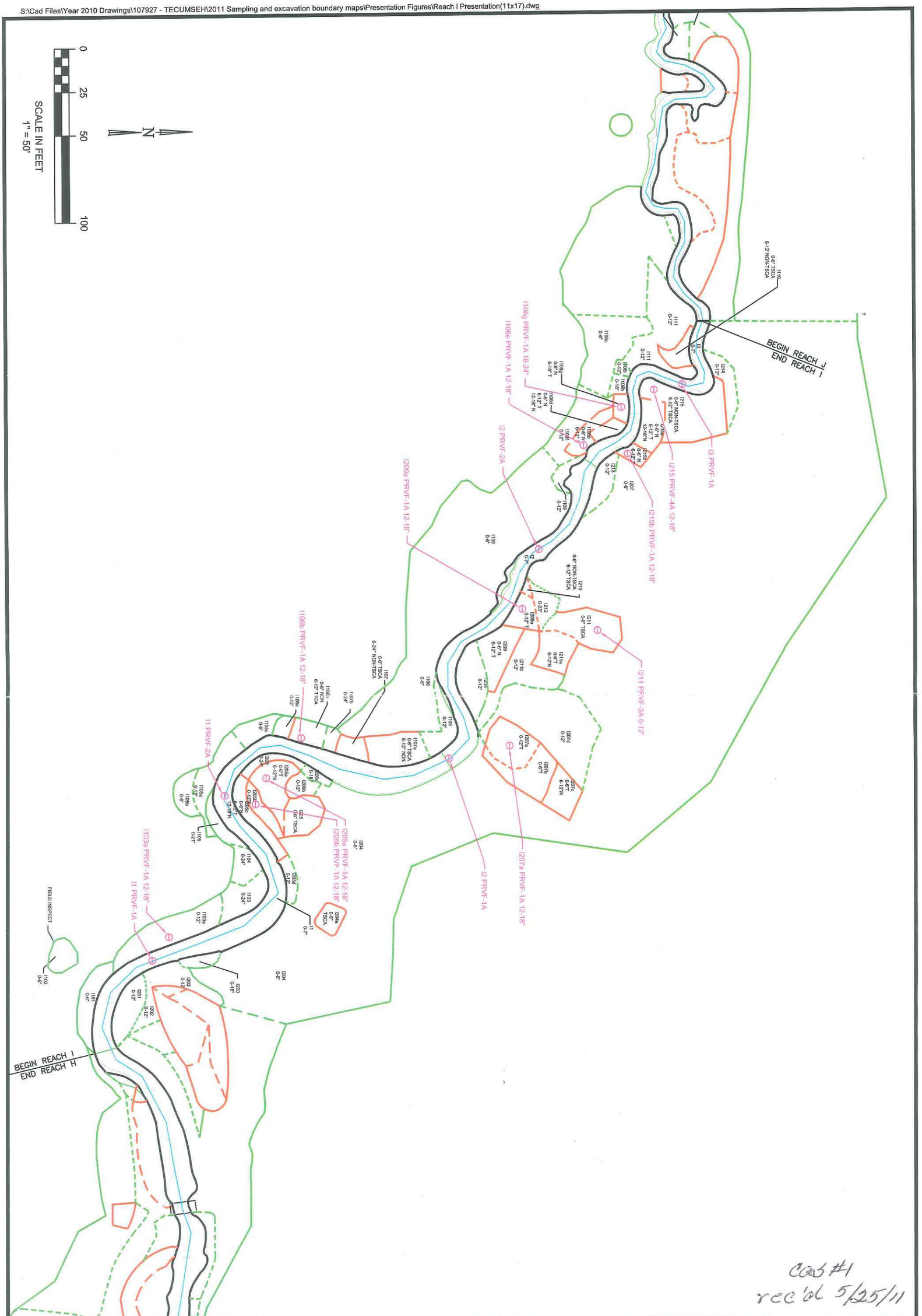
NATURAL RESOURCE TECHNOLOGY

REACH I

HAYTON AREA REMEDIATION PROJECT OVERBANK SAMPLE LOCAITONS AND TOTAL PCB CONCENTRATIONS

DRAWN BY: RLH/TAS	DATE: 01/18/06		
CHECKED BY: EPK	DATE: 02/07/06		
APPROVED BY: EPK	DATE: 02/15/06		
DRAWING NO:1778-16-B03C, LAYOUT I			
REF: P:\1778\CAD1778\060111SOILcad_final			

S:\Cad Files\Year 2010 Drawings\107927 - TECUMSEH\2011 Sampling and excavation boundary maps\Presentation Figures\Reach I Presentation(11x17).dwg



Cad #1
rec'd 5/25/11

FIGURE NO. 1	DATE: MAY 2011	SCALE: 1" = 100'	PROPOSED POST-REMEDIAL VERIFICATION SAMPLES REACH I HAYTON AREA REMEDIATION PROJECT CALUMET COUNTY, WISCONSIN	TRC 230 WEST MONROE STREET, SUITE 2370 CHICAGO, IL 60606 PHONE (312) 578-0870 FAX (312) 578-0877	REVISIONS
	DESIGN BY: PD	DRAWN BY: SPA			
	SHEET NO. 1 of 1	JOB NUMBER: 107927			
	SHEET ID: REACH I PRESENTATION(11X17).DWG				

NO.	DATE	COMMENT

Proposed Overbank Removal Boundaries and Sample Results Operable Unit 3, Reach M

Hayton Area Remediation Project
Calumet County, Wisconsin

October 2011

Prepared by:

TRC

Chicago, Illinois

TRC

230 West Monroe Street
Suite 2370
Chicago, IL 60606

312.578.0870 PHONE
312.578.0877 FAX

www.TRCsolutions.com

rec'd
CD3 #1
10/13/11

October 12, 2011

Mr. Jim Baumann
Special Assistant to Bureau Director
Bureau of Watershed Management
Wisconsin Department of Natural Resources
101 S. Webster Street, Box 7921
Madison, WI 53707-7921

Ms. Jean Greensley
U.S. Environmental Protection Agency
Remediation and Reuse Branch
Land and Chemicals Division
77 W. Jackson Boulevard
Chicago, IL 60604-3511

Re: Proposed Overbank Removal Boundaries and Sample Results
Operable Unit 3, Reach M
Hayton Area Remediation Project

Dear Mr. Baumann and Ms. Greensley:

On August 12, 2011, WDNR submitted its review of the proposed removal boundaries in Reaches K, L and M, and identified locations where additional sampling is needed to adequately define removal boundaries. On September 14, 2011, WDNR submitted draft Conditions of Approval for Reaches K, L and M, which specified additional locations for characterization and post-remedial verification (PRV) sampling. To address each of the locations identified by WDNR, TRC has collected additional characterization samples in Reaches K, L and M, and has modified removal boundaries, as appropriate.

Enclosed for your approval are a figure and tables showing modified overbank removal boundaries in Reach M of the Hayton Area Remediation Project, Operable Unit 3 (OU3). Electronic copies of this submittal are also being provided via email to James.Baumann@Wisconsin.gov and Greensley.Jean@epamail.epa.gov.

Table 1 lists the additional characterization samples were collected and analyzed in Reach M to address each of the locations identified by WDNR. Figure 1 shows the sample results and modified removal boundaries. The additional characterization samples and modified removal boundaries are shown in magenta.

Figure 1 also shows the locations of proposed post-remedial verification (PRV) samples in Reach M. TRC has added PRV sample locations based on those requested in the September 14, 2011 draft Conditions of Approval. Several PRV sample locations were added based the modified removal boundaries. Table 2 is an updated list of PRV sample locations in Reach M. Table 3 provides the rationale for each of the modified removal boundaries. Table 4 is an updated list of stream bank PRV samples. Table 4 also indicates the segment of stream bank (by Station ID) that is represented by each stream bank PRV sample.

TRC is still in the process of characterizing several removal zones in Reach M. TRC has collected characterization samples for these areas and we are awaiting the results. The removal zones that require further characterization are indicated on Figure 1 and on Table 3. TRC will provide the sample results within 48 hours of receipt from the laboratory.

As requested, TRC has also enclosed copies of the following reference documents to help streamline the review and approval process:

- Reach M sample elevation information from the *HARP OU2/L & OU3 In-Channel and Overbank Sampling Technical Memorandum* (February 2006);
- Reach M soil boring log information from the *HARP OU2/L & OU3 In-Channel and Overbank Sampling Technical Memorandum* (February 2006);
- Figures of the stream channel location in Reach M, from the Earth Tech document *HARP OU3 Overbank Sampling and Analysis Plan* (December 2003)
- Reach M soil boring logs from the Earth Tech document *HARP OU3 Overbank Sampling and Analysis Plan* (December 2003)

We would appreciate your comments and approval for Reach M by October 21, 2011.

Please contact me at (312) 578-0870, extension 8486, with any questions.

Sincerely,
TRC

Christopher D. Harvey, PE
Program Manager

Enclosures: *Figure 1 - Sample Results, Excavation Boundaries and Proposed PRV Samples, Reach M*
Table 1- Additional Characterization Sampling Results 2011, Reach M
Table 2- Rationale for Modified Removal Boundaries, Reach M
Table 3 – Proposed Post-Removal Verification Samples, Reach M
Table 4 - Proposed Stream Bank PRV Samples, Reach M
Reach M Reference Documents

Table 1. Additional Characterization Sampling Results 2011
Reach M
Hayton Area Remediation Project

10/12/2011

Sample Name	Total PCBs (mg/kg)	Location	Comments
RM 008L 12-18	4.27	M110	
DUP 123	6.69	M110	
RM 020L 0-6	0.696	14LL	
RM 020L 6-12	0.176(J)	14LL	
RM 021L 0-6	2.85	12ML	
RM 021L 6-12	4.2	12ML	
DUP 114	5.32	12ML	
RM 021L 12-18	6.35	12ML	
RM 021L 18-24	5.24	M110	
RM 021L 24-30	0.0616 (J)	M110	
RM 022L 0-6	4.54	12ML	
RM 022L 6-12	0.326	12ML	
DUP 119	0.563	12ML	
RM 023L 0-6	6.02	12ML	Located at the top of the bank
RM 023L 6-12	10.7	12ML	Located at the top of the bank
RM 023L 12-18	0.428	M110	Located at the top of the bank
RM 024L 0-6	2.26	M110	Located at the top of the bank
RM 024L 6-12	1.36	M110	Located at the top of the bank
RM 024L 12-18	<0.0386	M110	Located at the top of the bank
RM 025L 12-18	13.6	M105	
RM 025L 18-24	4.85	M105	
RM 026L 0-6	5.86	7ML	
RM 026L 6-12	0.264	7ML	
RM 026L 12-18	0.0432 (J)	7ML	
RM 027L 0-6	3.08	7ML	
RM 027L 6-12	0.489	7ML	
RM 027L 12-18	<0.0373	7ML	
RM 028L 0-6	8.21	13ML	
RM 028L 6-12	7.62	13ML	
RM 028L 12-18	8.7	13ML	
RM 029L 0-6	1.91	16ML	
RM 029L 6-12	6.96	16ML	
RM 029L 12-18	1.14	16ML	
RM 031L 0-6	4.59	M101	
RM 032L 0-6	7.99	M102	
RM 032L 6-12	10.4	M102	
RM 033L 0-6	4.93	7ML	
RM 034L 0-6	1.73	7ML	
RM 035L 0-6	6.95	7ML	
DUP 129	4.74	7ML	
RM 036L 12-18	0.222	M105	
RM 037L 0-6	2.95	16ML	
RM 037L 6-12	3.54	16ML	
RM 038L 0-6	4.87	16ML	
RM 038L 6-12	3.47	16ML	

Table 1. Additional Characterization Sampling Results 2011
Reach M
Hayton Area Remediation Project

10/12/2011

Sample Name	Total PCBs (mg/kg)	Location	Comments
RM 039L 0-6	6.19	16ML	
RM 039L 6-12	4.5	16ML	
RM 040L 0-6	3.72	7ML	
RM 041L 18-24	1.88	13ML	
RM 042L 0-6	1.72	13ML	
RM 042L 6-12	4.15	13ML	
RM 042L 12-18	6.2	13ML	
RM 043L 0-6	6.65	13ML	
RM 043L 6-12	12.8	13ML	
RM 043L 12-18	2.63	13ML	
RM 044L 0-6	20.4	15ML	
RM 044L 6-12	0.99	15ML	
RM 044L 12-18	0.169 (J)	15ML	
DUP 131	<0.0519	15ML	
RM 515R 0-6	2.22	3MR	
RM 515R 6-12	4.62	3MR	
RM 516R 0-6	3.96	19MR	
RM 516R 6-12	0.457	19MR	
RM 517R 0-6	13.4	5MR	
DUP 128	13.5	5MR	
RM 517R 6-12	10.5	5MR	
RM 517R 12-18	1.72	5MR	
RM 518R 0-6	6.16	8MR	
RM 518R 6-12	1.23	8MR	
RM 518R 12-18	<0.0343	8MR	
RM 519R 0-6	4.4	M202	
RM 520R 0-6	1.52	5MR	
RM 520R 6-12	0.0498 (J)	5MR	
RM 521R 0-6	4.34	4MR	Located at the top of the bank
RM 521R 6-12	0.289	4MR	Located at the top of the bank
RM 521R 12-18	0.056 (J)	4MR	Located at the top of the bank
RM 522R 0-6	10.3	4MR	Located at the top of the bank
RM 522R 6-12	2.47	4MR	Located at the top of the bank
RM 522R 12-18	0.31	4MR	Located at the top of the bank
RM 523R 0-6	3.77	8MR	
RM 524R 0-6	2.0	8MR	
RM 525R 0-6	2.72	8MR	

(J) = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

Table 2. Rationale for Modified Removal Boundaries
Reach M
Hayton Area Remediation Project

10/12/2011

Removal Zone ID	Rationale
M102	• Upstream boundary is established by sample RM 003L 6-12" = 0.454 mg/kg. • Upland boundary is established by samples RM 002L 0-6' = 2.75 mg/kg; RM 002L 6-12" = 0.123 mg/kg; and RM-289+00-W40 0-6" = 1.8 mg/kg. • Downstream boundary is established by samples RM 004L 0-6" = 2.72 mg/kg; and RM 004L 6-12" = 0.758 mg/kg. • Floor is established by sample RM-289+00-W10 12-24" = 0.71 mg/kg.
M104	• Upstream boundary is established by sample RM 005L 0-6" = 1.42 mg/kg. • Upland boundary is established by samples RM-292+30-S80 0-6" = 4.4 mg/kg; and RM 006L 0-6" = 3.77 mg/kg. • Downstream boundary is established by sample RM-293+30-S10 0-6" = 3 mg/kg. • Boundary with M103 established by the polygon line between 9ML and 8ML, with reference to sample RM-292+30-S40 6-12" = 0.16 mg/kg. • Floor is established by samples RM-292+30-S40 6-12" = 0.16 mg/kg; and RM-293+30-S30 6-12" = 0.098 mg/kg.
M105	• Upstream boundary is established by samples RM 007L 0-6" = 2.6 mg/kg; RM 007L 6-12" = 3.81 mg/kg; and RM 036L 12-18" = 0.222 mg/kg. • Upland boundary is established by the polygon line between 11MLb and 6ML, with refererence to sample RM-294+20-S30 0-6" = 1.1 mg/kg; and the polygon line between 12ML and 11MLb, with reference to samples RM 022L 0-6" = 4.54 mg/kg; and RM 022L 6-12" = 0.326 mg/kg. • Downstream boundary is established by sample RM 023L 12-18" = 0.428 mg/kg. • Floor is established by samples RM-294+20-S10 12-21" = 0.12 mg/kg; RM 025L 18-24" = 4.85 mg/kg; RM 008L 12-18" = 4.27 mg/kg; and RM 021L 24-30" = 0.0616 (J) mg/kg.
M106	• Upstream boundary is established by sample RM 009L 0-6" = 3.82 mg/kg. • Upland boundary is established by the polygon line between 13ML and 14ML, with reference to sample RM-296+50-W60 0-6" = 0.28 mg/kg. • Floor is established by samples RM-296+50-W10 6-12" = 2.3 mg/kg; and RM-296+50-W40 6-12" = 0.28 mg/kg. **• TRC is collecting characterization samples at the downstream end of M106 to establish the boundary with M112. Results are pending.**
M109	• Upland and upstream boundaries are established by the polygon line between 19ML and 19ML, with reference to sample RM-302+20-S30 6-12" = 0.88 mg/kg. • Floor is established by sample RM-302+20-S10 12-30" = 0.17 mg/kg. **• TRC is collecting characterization samples at the downstream end of M109 to establish the boundary with N108. Results are pending.**
M110	• Upstream boundary and floor established by sample RM 023L 12-18" = 0.428 mg/kg. • Downstream boundary established by RM 024L 0-6" = 2.26 mg/kg; and RM 024L 6-12" = 1.36 mg/kg. **• Upland boundary will be confirmed by PRV samples RM PRVW 032L 0-6" and RM PRVW 033L 6-12".**
M111	• Upstream boundary established by sample RM 033L 0-6" = 4.93 mg/kg. • Upland boundary established by the polygon line between 7ML and 6ML, with referenceto sample RM 034L 0-6" = 1.73 mg/kg. • Downstream boundary established by samples RM 040L 0-6" = 3.72 mg/kg; and RM-292+30-S80 0-6" = 4.4 mg/kg. • Floor established by sample RM 026L 6-12" = 0.264 mg/kg.

Table 2. Rationale for Modified Removal Boundaries
Reach M
Hayton Area Remediation Project

10/12/2011

Removal Zone ID	Rationale
M112	**• TRC is collecting characterization samples at the upstream end of M112 to establish the boundary with M106. Results are pending.** • Upland boundary established by samples RM 044L 6-12' = 0.99 mg/kg; and RM 044L 12-18" = 0.169 (J) mg/kg. **• TRC is collecting characterization samples at the north end of the upland extent of M112 to establish the boundary. Results are pending.** • Downstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg. **• TRC is collecting an additional characterization sample at RM 038L 12-18" to further establish the downstream boundary. Results are pending.** • Floor established by sample RM 041L 18-24" = 1.88 mg/kg.
M113	• Upstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg. **• TRC is collecting an additional characterization sample at RM 038L 12-18" to further establish the upstream boundary. Result is pending.** • Upland boundary established by sample RM 039L 6-12" = 4.5 mg/kg. • Downstream boundary established by samples RM 037L 0-6" = 2.95 mg/kg; and RM 037L 6-12" = 3.54 mg/kg. • Floor established by sample RM 029L 12-18" = 1.14 mg/kg.
M114	• Upstream boundary established by sample RM 038L 6-12" = 3.47 mg/kg. **• TRC is collecting an additional characterization sample at RM 038L 12-18" to further establish the upstream boundary. Result is pending.** • Upland boundary established by sample RM-299+90-S50 0-6" = 2.3 mg/kg. • Downstream boundary established by sample RM 037L 0-6" = 2.95 mg/kg. • Floor and eastern boudnary established by sample RM 039L 6-12" = 4.5 mg/kg.
M201A	• Upstream boundary is established by sample RM 522R 6-12" = 2.47 mg/kg. • Upland boundary is established by samples RM 514R 0-6" = 1.09 mg/kg; and RM 502R 0-6" = 1.8 mg/kg. **• TRC is collecting an additional characterization sample at the upstream end of the upland boundary of M201A to further establish the upland boundary. Result is pending.** • Downstream boundary is established by sample RM 504R 0-6" = 0.587 mg/kg. • Floor is established by sample 4MR-PRE-6-12" = <0.1 mg/kg.
M206	• Upstream boundary established by samples RM 521R 0-6" = 4.34 mg/kg; and RM 521R 6-12" = 0.289 mg/kg. • Upland boundary established by samples RM 520R 0-6" = 1.52 mg/kg; and RM 520R 6-12" = 0.0498 (J) mg/kg. **• TRC is collecting an additional characterization sample at the downstream end of the upland boundary of M206 to further establish the upland boundary. Result is pending.** • Downstream boundary established by sample RM 522R 6-12" = 2.47 mg/kg. • Floor established by sample RM 517R 12-18" = 1.72 mg/kg.
M207	• Upstream boundary established by sample RM 525R 0-6" = 2.72 mg/kg. • Upland boundary established by the polygon line between 8MR and 12MR, with reference to sample RM 524R 0-6" = 2.0 mg/kg. • Downstream boundary established by sample RM 523R 0-6" = 3.77 mg/kg. • Floor established by sample RM 518R 6-12" = 1.23 mg/kg.

(J) = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 3. Proposed Post-Removal Verification Samples
Reach M
Hayton Area Remediation Project

10/12/2011

Sample ID	In-channel[1] or Overbank	Type	Northing	Easting
RM IC PRVF 900C	In-channel	Floor	734761	2468782
RM IC PRVF 901C	In-channel	Floor	735055	2468763
RM IC PRVF 902C	In-channel	Floor	735308	2468758
RM IC PRVF 903C	In-channel	Floor	735411	2468629
RM IC PRVF 904C	In-channel	Floor	735493	2468397
RM IC PRVF 905C	In-channel	Floor	735708	2468323
RM IC PRVF 906C	In-channel	Floor	735654	2468082
RM BK PRVW 001L	Stream bank	Sidewall	734742	2468784
RM BK PRVW 002L	Stream bank	Sidewall	734906	2468768
RM BK PRVW 003L	Stream bank	Sidewall	735091	2468732
RM BK PRVW 004L	Stream bank	Sidewall	735226	2468680
RM BK PRVW 005L	Stream bank	Sidewall	735413	2468784
RM BK PRVW 006L	Stream bank	Sidewall	735416	2468695
RM BK PRVW 007L	Stream bank	Sidewall	735439	2468389
RM BK PRVW 008L	Stream bank	Sidewall	735610	2468397
RM BK PRVW 009L	Stream bank	Sidewall	735697	2468353
RM BK PRVW 010L	Stream bank	Sidewall	735651	2468237
RM BK PRVW 011L	Stream bank	Sidewall	735639	2468063
RM BK PRVW 012L	Stream bank	Sidewall	734696	2468864
RM BK PRVW 500R	Stream bank	Sidewall	734753	2468797
RM BK PRVW 501R	Stream bank	Sidewall	734905	2468790
RM BK PRVW 502R	Stream bank	Sidewall	735195	2468707
RM BK PRVW 503R	Stream bank	Sidewall	735222	2468698
RM BK PRVW 504R	Stream bank	Sidewall	735428	2468797
RM BK PRVW 505R	Stream bank	Sidewall	735411	2468600
RM BK PRVW 506R	Stream bank	Sidewall	735446	2468406
RM BK PRVW 507R	Stream bank	Sidewall	735557	2468365
RM BK PRVW 508R	Stream bank	Sidewall	735697	2468403
RM BK PRVW 509R	Stream bank	Sidewall	735668	2468237
RM BK PRVW 510R	Stream bank	Sidewall	735652	2468065
RM PRVF 020L 12-18"	Overbank	Floor	735144	2468693
RM PRVF 021L 12-18"	Overbank	Floor	735407	2468778
RM PRVF 022L 6-12"	Overbank	Floor	735415	2468735
RM PRVF 023L 6-12"	Overbank	Floor	735444	2468378
RM PRVF 024L 6-12"	Overbank	Floor	735682	2468295
RM PRVF 025L 6-12"	Overbank	Floor	735675	2468174
RM PRVF 026L 12-18"	Overbank	Floor	735697	2468130

Table 3. Proposed Post-Removal Verification Samples
Reach M
Hayton Area Remediation Project

10/12/2011

Sample ID	In-channel[1] or Overbank	Type	Northing	Easting
RM PRVF 027L 6-12"	Overbank	Floor	735683	2468131
RM PRVF 028L 6-12"	Overbank	Floor	735096	2468711
RM PRVF 029L 6-12"	Overbank	Floor	735410	2468714
RM PRVW 030L 12-18"	Overbank	Sidewall	735380	2468488
RM PRVW 030L 18-24"	Overbank	Sidewall	735380	2468488
RM PRVF 031L 6-12"	Overbank	Floor	735592	2468191
RM PRVW 032L 0-6"	Overbank	Floor	735382	2468468
RM PRVW 032L 6-12"	Overbank	Floor	735382	2468468
RM PRVF 515R 6-12"	Overbank	Floor	734797	2468786
RM PRVF 516R 6-12"	Overbank	Floor	735529	2468403
RM PRVF 517R 6-12"	Overbank	Floor	735728	2468365
RM PRVF 518R 6-12"	Overbank	Floor	735735	2468192
RM PRVF 519R 12-18"	Overbank	Floor	735662	2468065
RM PRVF 520R 6-12"	Overbank	Floor	735677	2468065

1 The locations of in-channel samples may be adjusted, or additional in-channel samples may be added, based on visual cues observed during removal.

Table 4. Proposed Stream Bank PRV Samples - Reach M
Hayton Area Remediation Project

10/12/2011

PRV Sample Name or Removal Zone	Length of Streambank Represented		Description
	Upstream Station	Downstream Station	
Right Bank			
RM BK PRVW 500R	284+00	286+00	Inner meander along M201
RM BK PRVW 501R	286+00	287+60	Straight section
RM BK PRVW 502R	287+60	289+50	Straight section opposite of M101 and M102
RM BK PRVW 503R	289+50	291+20	Inner meander along M206 and M201A
RM BK PRVW 504R	291+20	293+50	Outer meander along M202
RM BK PRVW 505R	293+50	295+50	Straight section along M202 and M207
RM BK PRVW 506R	295+50	297+20	Inner meander along M207 and M203
RM BK PRVW 507R	297+20	298+50	Inner meander along M204
RM BK PRVW 508R	298+50	300+40	Outer meander along M204
RM BK PRVW 509R	300+40	302+00	Inner meander along M204
RM BK PRVW 510R	302+00	304+00	Inner meander along M204 and M205
Left Bank			
RM BK PRVW 012L	283+30	284+40	Straight section
RM BK PRVW 001L	284+40	286+00	Outer meander opposite of M201
RM BK PRVW 002L	286+00	287+60	Straight section up to start of M101
RM BK PRVW 003L	287+60	289+50	Straight section along M101 and M102
RM BK PRVW 004L	289+50	291+20	Outer meander
RM BK PRVW 005L	291+20	293+00	Inner meander along M103 and M104
RM BK PRVW 006L	293+00	294+00	Straight section along M105
M105	294+00	295+40	24" removal
RM BK PRVW 007L	295+40	296+80	Outer meander along M106
M112	296+80	298+00	24" removal
RM BK PRVW 008L	298+00	299+20	Inner meander along M113
RM BK PRVW 009L	299+20	300+40	Inner meander along M108
RM BK PRVW 010L	300+40	302+00	Outer meander along M107 and M109
RM BK PRVW 011L	302+00	304+00	Outer meander along M109

Table 1. In-Channel Sampling Location Summary
HARP OU2/L & OU3

Sampling Point	Date	Northing	Easting	Elevation	Sampling Depth	Sediment Thickness	Average Sediment Thickness	Water Depth	Calculated Water Elevation	Average Water Elevation
		(State Plane - ft)		(NAVD - ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
RI-222+30-IC	08/24/05	731,467.0	2,471,800.0	816.6	1.40	0.80	Reach I 0.7	1.55	818.2	Reach I 818.1
RI-227+00-IC	08/24/05	731,768.3	2,471,618.9	817.1	1.00	0.40		0.94	818.0	
RI-231+30-IC	08/24/05	731,991.8	2,471,366.4	816.4	0.90	0.80		1.56	818.0	
RJ-232+50-IC	08/24/05	731,960.9	2,471,236.3	816.7	1.00	0.60	Reach J 0.6	1.19	817.9	Reach J 817.8
RJ-234+50-IC	08/24/05	731,946.3	2,471,092.2	816.6	1.10	0.50		1.32	817.9	
RJ-237+00-IC	08/24/05	731,962.2	2,470,919.9	816.3	0.80	0.80 H		1.41	817.7	
RJ-241+20-IC	08/24/05	732,197.4	2,470,774.5	816.6	0.80	0.50		1.31	817.9	
RJ-243+50-IC	08/24/05	732,251.7	2,470,610.2	817.0	1.50	0.60		0.62	817.6	
RJ-247+70-IC	08/24/05	732,586.7	2,470,462.9	816.4	1.10	0.50		1.49	817.9	
RJ-249+40-IC	08/24/05	732,732.7	2,470,466.3	815.9	1.40	0.40		1.82	817.7	
RK-251+10-IC	08/24/05	732,817.5	2,470,353.7	815.8	1.20	0.30	Reach K 0.4	1.87	817.7	Reach K 817.1
RK-252+50-IC	08/24/05	732,811.0	2,470,130.0	816.1	0.90	0.50		1.47	817.6	
RK-254+80-IC	08/24/05	732,843.0	2,470,022.3	815.6	0.90	0.50		1.79	817.4	
RK-257+00-IC	08/24/05	733,009.0	2,469,849.9	816.1	0.80	0.25		1.29	817.4	
RK-259+00-IC	08/24/05	733,146.1	2,469,890.4	815.8	1.50	0.40		1.49	817.3	
RK-263+50-IC	08/23/05	733,418.4	2,469,614.9	815.4	1.00	0.50		0.92	816.3	
RK-265+00-IC	08/23/05	733,552.9	2,469,534.0	815.3	1.40	0.60		0.70	816.0	
RL-266+40-IC	08/23/05	733,626.0	2,469,526.5	815.0	0.75	0.60	Reach L 0.6	0.92	815.9	Reach L 816.0
RL-268+70-IC	08/23/05	733,743.1	2,469,405.5	814.7	1.20	0.60		1.19	815.9	
RL-272+00-IC	08/23/05	734,038.0	2,469,413.2	814.9	0.70	0.20		1.18	816.1	
RL-277+70-IC	08/23/05	734,440.9	2,469,334.3	814.5	0.80	0.70		1.36	815.9	
RL-282+00-IC	08/23/05	734,705.1	2,469,148.9	815.0	0.80	0.80 H		1.09	816.1	
RM-287+50-IC	08/23/05	735,053.8	2,468,763.3	814.6	1.00	0.50	Reach M 0.7	1.15	815.8	Reach M 815.7
RM-290+00-IC	08/23/05	735,231.3	2,468,693.8	814.6	0.60	0.60 C		0.94	815.5	
RM-293+30-IC	08/23/05	735,424.5	2,468,696.0	814.5	0.90	0.70		1.21	815.7	
RM-295+40-IC	08/23/05	735,395.5	2,468,466.8	814.9	1.25	0.60		0.82	815.7	
RM-298+50-IC	08/23/05	735,595.0	2,468,395.8	814.6	1.30	0.90		1.09	815.7	
RN-304+50-IC	08/23/05	735,738.2	2,467,978.9	813.8	1.25	0.70	Reach N 0.8	1.72	815.5	Reach N 815.5
RN-307+60-IC	08/23/05	735,832.4	2,467,838.2	814.3	0.80	0.80 H		1.30	815.6	
RN-311+60-IC	08/23/05	736,013.6	2,467,550.3	814.5	1.30	0.70		0.87	815.4	
RN-314+00-IC	08/23/05	736,171.1	2,467,397.8	814.3	0.90	0.90 C		1.08	815.4	
RN-317+00-IC	08/23/05	736,349.5	2,467,198.7	814.1	0.70	0.70 H		1.43	815.5	

Table 2. Sediment Poling Summary
HARP OU2/L & OU3

Reach	Poling Location	Northing	Easting	Sediment Thickness Observations (ft)			Average Sediment Thickness (ft)	
		(State Plane - ft)		Left Side	Center	Right Side	Across Creek	Reach
H	265	730,919.57	2,472,741.24	0.5	0.8	0.8	0.7	0.7
	266	730,982.20	2,472,711.68	1.7	1.7	1.7	1.7	
	267	731,015.34	2,472,677.62	0.3	0.3	0.3	0.3	
	268	731,075.17	2,472,636.75	0.5	0.2	0.2	0.3	
	268A	731,152.30	2,472,595.78	0.5	0.3	0.3	0.4	
	269	731,272.09	2,472,478.67	0.8	0.8	0.3	0.6	
	270	731,411.25	2,472,318.05	0.7	0.7	0.7	0.7	
I	271	731,300.17	2,472,113.86	0.7	1.0	0.7	0.8	0.5
	272	731,328.58	2,472,065.83	0.3	0.5	0.5	0.4	
	273	731,477.46	2,471,894.80	0.5	0.5	0.5	0.5	
	274	731,514.30	2,471,772.68	0.2	0.5	0.8	0.5	
	275	731,535.45	2,471,779.23	0.5	0.5	0.5	0.5	
	276	731,694.86	2,471,788.77	0.5	0.5	0.5	0.5	
	276A	731,758.95	2,471,645.70	0.5	0.6	0.6	0.6	
	277	731,868.58	2,471,460.25	0.5	0.5	0.5	0.5	
J	278	731,954.97	2,471,252.06	0.5	0.5	0.5	0.5	0.5
	279	731,945.38	2,471,098.73	0.5	0.5	0.5	0.5	
	280	731,963.72	2,470,919.30	0.5	0.5	0.5	0.5	
	281	732,431.60	2,470,569.89	0.5	0.5	0.5	0.5	
	281A	732,529.05	2,470,492.65	0.6	0.6	0.6	0.6	
K	282	732,880.42	2,470,265.68	0.5	0.5	0.5	0.5	0.7
	283	732,827.64	2,470,186.64	0.6	0.6	0.6	0.6	
	284	732,896.30	2,469,896.79	1.0	0.5	1.0	0.8	
	285	733,202.12	2,469,766.35	0.8	0.8	0.8	0.8	
	285A	733,208.65	2,469,740.51	0.8	0.8	0.8	0.8	
	286	733,324.34	2,469,705.33	0.6	0.6	0.6	0.6	
L	287	733,924.73	2,469,425.82	0.6	0.6	0.6	0.6	0.6
	288	734,045.91	2,469,409.89	0.8	0.8	0.8	0.8	
	289	734,158.31	2,469,275.71	0.6	0.6	0.6	0.6	
	290	734,290.95	2,469,259.97	0.6	0.6	0.6	0.6	
	290A	734,334.56	2,469,306.12	0.5	0.5	0.5	0.5	
	291	734,499.06	2,469,294.25	0.5	0.5	0.5	0.5	
	292	734,595.54	2,469,261.34	0.5	0.5	0.5	0.5	
	293	734,659.91	2,469,203.34	0.6	0.6	0.2	0.5	
	294	734,679.45	2,468,943.58	0.5	0.5	1.0	0.7	
M	295	734,753.61	2,468,797.58	1.0	1.0	1.0	1.0	0.6
	296	734,924.88	2,468,780.06	0.5	0.5	0.8	0.6	
	297	735,027.67	2,468,783.37	0.5	0.5	0.5	0.5	
	297A	735,058.59	2,468,770.16	0.5	0.5	0.5	0.5	
	298	735,137.80	2,468,711.83	0.7	0.6	0.6	0.6	
	298A	735,225.50	2,468,698.14	0.6	0.6	0.6	0.6	
	299	735,357.62	2,468,782.76	0.6	0.6	0.6	0.6	
	300	735,432.04	2,468,698.48	0.6	0.6	0.6	0.6	
	301	735,389.87	2,468,558.65	0.5	0.5	0.5	0.5	
	301A	735,382.81	2,468,484.04	0.5	0.5	0.5	0.5	
	302	735,460.54	2,468,388.67	0.5	0.5	0.5	0.5	
	303	735,551.30	2,468,345.84	1.5	0.6	0.6	0.9	
	304	735,640.40	2,468,383.13	0.8	0.8	0.8	0.8	
	305	735,675.57	2,468,279.22	0.5	1.0	1.0	0.8	
	306	735,713.46	2,468,183.04	0.6	0.6	0.6	0.6	
	307	735,641.51	2,468,069.58	0.5	0.5	0.5	0.5	

Table 3. Overbank Sampling Location Summary
HARP OU2/L & OU3

Sampling Point	Date	Northing	Easting	Elevation	Original Point or Step-Out	Sampling Depth
		(State Plane - ft)		(NAVD - ft)		(ft)
RL-272+00-W40	10/03/05	734,008.88	2,469,375.12	na	Sept/Oct. Step-Out	2.0
RL-274+40-S10	09/16/05	734,173.08	2,469,242.27	817.4	Original Point	2.25
RL-274+40-S30	09/16/05	734,150.52	2,469,231.67	818.5	Original Point	1.5
RL-275+80-E10	09/15/05	734,322.37	2,469,300.42	816.9	Original Point	2.5
RL-275+80-E40	09/30/05	734,298.73	2,469,318.89	na	Sept/Oct. Step-Out	2.2
RL-277+70-E20	09/15/05	734,471.47	2,469,350.19	817.4	Original Point	2.3
RL-277+70-W10	09/16/05	734,428.24	2,469,330.36	816.8	Original Point	2.5
RL-277+70-W40	09/16/05	734,397.22	2,469,309.30	818.1	Original Point	2.0
RL-278+00-W100	09/16/05	734,417.98	2,469,254.17	818.5	Original Point	2.0
RL-279+50-E100	09/15/05	734,619.99	2,469,371.39	817.3	Original Point	2.75
RL-280+10-E10	09/16/05	734,682.17	2,469,221.47	818.2	Original Point	2.75
RL-280+10-E30	09/16/05	734,697.05	2,469,239.68	818.0	Original Point	2.5
RL-280+10-W15	09/16/05	734,649.65	2,469,198.43	817.2	Original Point	2.25
RL-280+10-W30	09/16/05	734,632.42	2,469,188.11	818.0	Original Point	1.75
RL-280+10-W5	09/16/05	734,660.53	2,469,202.11	816.6	Original Point	2.25
RL-281+80-S15	09/16/05	734,694.25	2,469,081.95	817.2	Original Point	2.0
RL-281+80-S40	09/16/05	734,673.14	2,469,109.90	817.7	Original Point	2.0
RL-281+90-S5	09/16/05	734,704.55	2,469,068.05	817.3	Original Point	1.5
RL-282+50-N20	09/16/05	734,704.95	2,469,001.41	817.9	Original Point	2.0
RL-282+50-N40	10/03/05	734,724.84	2,469,003.50	na	Sept/Oct. Step-Out	1.5
RL-282+50-S10	10/03/05	734,650.25	2,469,000.72	na	Sept/Oct. Step-Out	1.5
RL-282+50-S30	11/14/05	734,630.25	2,469,000.72	na	Nov. Step-Out	2.0
RM-285+50-E30	09/16/05	734,798.54	2,468,809.97	817.5	Original Point	1.75
RM-285+50-E5	09/16/05	734,795.33	2,468,785.60	816.5	Original Point	2.0
RM-285+50-W25	09/16/05	734,791.97	2,468,743.04	818.3	Original Point	2.0
RM-285+50-W5	09/16/05	734,793.63	2,468,758.02	818.1	Original Point	2.25
RM-287+50-E15	09/20/05	735,064.77	2,468,785.83	817.4	Original Point	2.0
RM-287+50-W30	09/19/05	735,035.66	2,468,725.94	817.2	Original Point	2.0
RM-287+50-W5	09/19/05	735,047.79	2,468,751.71	816.5	Original Point	2.0
RM-287+50-W50	10/03/05	735,025.96	2,468,708.44	na	Sept/Oct. Step-Out	2.25
RM-289+00-W10	09/19/05	735,133.93	2,468,699.33	817.8	Original Point	2.0
RM-289+00-W40	10/03/05	735,122.21	2,468,671.72	na	Sept/Oct. Step-Out	2.0
RM-290+00-E100	09/20/05	735,229.65	2,468,811.11	816.7	Original Point	2.0
RM-290+00-W100	09/19/05	735,217.10	2,468,580.56	816.8	Original Point	2.5
RM-292+30-N10	09/19/05	735,424.73	2,468,815.42	817.4	Original Point	2.0
RM-292+30-N40	10/03/05	735,441.51	2,468,840.29	na	Sept/Oct. Step-Out	2.25
RM-292+30-S10	09/19/05	735,399.51	2,468,783.39	817.5	Original Point	2.0
RM-292+30-S40	09/19/05	735,378.54	2,468,758.21	817.4	Original Point	2.75
RM-292+30-S80	09/19/05	735,355.81	2,468,732.81	817.1	Original Point	2.0
RM-293+30-N10	09/19/05	735,442.06	2,468,687.64	817.7	Original Point	2.0
RM-293+30-N40	10/03/05	735,471.29	2,468,680.89	na	Sept/Oct. Step-Out	2.0
RM-293+30-S10	09/19/05	735,408.43	2,468,706.49	816.9	Original Point	2.0
RM-293+30-S30	09/19/05	735,382.82	2,468,717.98	816.1	Original Point	2.5
RM-294+20-S10	10/03/05	735,383.62	2,468,619.98	na	Sept/Oct. Step-Out	2.25
RM-294+20-S30	10/03/05	735,361.40	2,468,621.65	na	Sept/Oct. Step-Out	2.75
RM-296+50-E20	09/19/05	735,480.97	2,468,419.92	816.7	Original Point	2.0
RM-296+50-E50	10/03/05	735,499.44	2,468,443.56	na	Sept/Oct. Step-Out	2.25
RM-296+50-W10	09/19/05	735,439.79	2,468,379.99	817.6	Original Point	1.5
RM-296+50-W40	09/19/05	735,415.47	2,468,357.64	816.6	Original Point	2.25
RM-296+50-W60	10/03/05	735,401.33	2,468,343.50	na	Sept/Oct. Step-Out	2.25
RM-297+90-E10	09/19/05	735,553.83	2,468,381.09	816.8	Original Point	2.0
RM-297+90-E25	09/19/05	735,558.41	2,468,393.75	817.0	Original Point	2.5
RM-297+90-E50	10/03/05	735,565.30	2,468,417.78	na	Sept/Oct. Step-Out	2.0
RM-298+00-W120	10/03/05	735,493.05	2,468,233.88	na	Sept/Oct. Step-Out	2.0

Table 3. Overbank Sampling Location Summary
HARP OU2/L & OU3

Sampling Point	Date	Northing	Easting	Elevation	Original Point or Step-Out	Sampling Depth
		(State Plane - ft)		(NAVD - ft)		(ft)
RM-298+90-E100	09/19/05	735,647.14	2,468,497.34	816.6	Original Point	1.75
RM-298+90-E120	10/03/05	735,650.27	2,468,517.09	na	Sept/Oct. Step-Out	2.0
RM-299+90-N15	09/19/05	735,737.95	2,468,343.22	816.7	Original Point	1.75
RM-299+90-N40	10/03/05	735,760.02	2,468,354.95	na	Sept/Oct. Step-Out	2.75
RM-299+90-N60	11/14/05	735,780.01	2,468,355.65	na	Nov. Step-Out	3.0
RM-299+90-S10	09/19/05	735,693.28	2,468,337.92	816.7	Original Point	2.0
RM-299+90-S20	09/19/05	735,677.97	2,468,335.84	817.1	Original Point	2.0
RM-299+90-S50	10/03/05	735,648.43	2,468,330.63	na	Sept/Oct. Step-Out	2.0
RM-301+00-N10	09/19/05	735,685.25	2,468,231.70	816.7	Original Point	2.25
RM-301+00-N30	09/19/05	735,709.99	2,468,231.91	816.6	Original Point	2.5
RM-301+00-N60	10/03/05	735,739.77	2,468,235.56	na	Sept/Oct. Step-Out	2.0
RM-301+00-N80	11/14/05	735,759.57	2,468,238.35	na	Nov. Step-Out	3.0
RM-301+00-S100	09/19/05	735,550.90	2,468,236.86	816.3	Original Point	2.25
RM-301+40-N40	11/14/05	735,734.59	2,468,195.43	na	Nov. Step-Out	3.0
RM-302+20-S10	09/19/05	735,685.79	2,468,121.60	816.8	Original Point	2.5
RM-302+20-S185	10/03/05	735,529.51	2,468,195.26	na	Sept/Oct. Step-Out	2.0
RM-302+20-S30	09/19/05	735,660.98	2,468,129.02	816.8	Original Point	2.0
RM-302+20-S70	09/19/05	735,634.57	2,468,148.49	816.4	Original Point	2.0
RM-303+10-N40	11/14/05	735,707.04	2,468,086.35	na	Nov. Step-Out	4.0
RM-303+30-N10	09/19/05	735,665.44	2,468,064.35	816.8	Original Point	2.25
RM-303+30-N25	09/19/05	735,681.30	2,468,067.05	816.7	Original Point	2.0
RM-303+30-N50	09/19/05	735,720.05	2,468,074.64	816.8	Original Point	2.25
RM-303+30-N70	10/03/05	735,738.96	2,468,081.15	na	Sept/Oct. Step-Out	2.0
RM-303+30-N90	11/14/05	735,758.18	2,468,086.66	na	Nov. Step-Out	3.0
RM-303+50-N40	11/14/05	735,717.78	2,468,048.74	na	Nov. Step-Out	4.5
RN-305+90-N10	09/20/05	735,719.25	2,467,898.06	816.7	Original Point	2.5
RN-305+90-N60	09/20/05	735,757.43	2,467,914.60	816.3	Original Point	2.0
RN-305+90-N90	10/04/05	735,783.92	2,467,928.68	na	Sept/Oct. Step-Out	2.0
RN-305+90-S10	09/20/05	735,682.47	2,467,881.64	816.9	Original Point	2.0
RN-305+90-S40	10/04/05	735,653.94	2,467,872.37	na	Sept/Oct. Step-Out	2.6
RN-307+60-S10	09/20/05	735,822.01	2,467,831.96	816.8	Original Point	2.25
RN-307+60-S50	09/20/05	735,776.87	2,467,814.53	816.6	Original Point	2.0
RN-307+60-S80	10/04/05	735,749.05	2,467,803.29	na	Sept/Oct. Step-Out	3.0
RN-307+80-S90	11/14/05	735,739.47	2,467,776.98	na	Nov. Step-Out	3.0
RN-308+30-N10	09/20/05	735,824.12	2,467,764.72	816.4	Original Point	2.0
RN-308+30-N100	10/04/05	735,904.87	2,467,788.51	na	Sept/Oct. Step-Out	2.0
RN-308+30-N60	09/20/05	735,867.28	2,467,774.83	817.2	Original Point	2.0
RN-309+40-N10	09/20/05	735,889.74	2,467,682.43	815.8	Original Point	2.5
RN-309+40-N40	09/20/05	735,924.06	2,467,694.90	816.9	Original Point	2.0
RN-309+40-S10	09/20/05	735,840.29	2,467,657.22	816.1	Original Point	2.25
RN-309+40-S40	09/20/05	735,801.80	2,467,657.68	815.3	Original Point	3.0
RN-309+40-S70	10/04/05	735,771.84	2,467,659.25	na	Sept/Oct. Step-Out	2.75
RN-309+40-S90	11/14/05	735,750.84	2,467,659.25	na	Nov. Step-Out	3.0
RN-311+00-W100	09/20/05	735,912.18	2,467,480.67	816.4	Original Point	2.0
RN-311+60-E10	09/20/05	736,027.24	2,467,565.71	816.5	Original Point	2.0
RN-311+60-E40	09/20/05	736,057.78	2,467,577.57	816.4	Original Point	2.0
RN-311+60-E80	09/20/05	736,096.93	2,467,593.65	816.7	Original Point	2.0
RN-311+60-W10	09/20/05	735,991.88	2,467,529.98	816.9	Original Point	2.75
RN-311+60-W40	10/04/05	735,967.01	2,467,513.20	na	Sept/Oct. Step-Out	3.0
RN-313+00-E100	09/20/05	736,071.69	2,467,553.64	816.5	Original Point	2.25
RN-315+50-E10	09/20/05	736,286.09	2,467,310.99	815.7	Original Point	2.0
RN-315+50-E30	09/20/05	736,299.70	2,467,319.10	816.6	Original Point	2.0
RN-315+50-E50	10/04/05	736,317.35	2,467,328.49	na	Sept/Oct. Step-Out	1.3
RN-315+50-W10	09/20/05	736,254.47	2,467,294.92	816.6	Original Point	2.5

Table 4. In-Channel Analytical Results Summary
HARP OU2/L & OU3

Sample Location and Depth (Inches)	Sample Date	Percent Solids	PCB Aroclors (mg/kg)							Total PCBs (mg/kg)
			1016	1221	1232	1242	1248	1254	1260	
RK-252+50-IC 6 - 8	10/04/05	66.4	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
RK-254+80-IC 0 - 6	08/24/05	34.8	< 0.076	< 0.076	< 0.076	< 0.076	0.700	2.400	0.640	3.700
RK-254+80-IC 6 - 9	08/24/05	44.8	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
RK-257+00-IC 0 - 3	08/24/05	50.5	< 0.053	< 0.053	< 0.053	< 0.053	0.380	0.960	0.240	1.600
RK-257+00-IC 3 - 8	08/24/05	47.0	< 0.280	< 0.280	< 0.280	< 0.280	1.100	0.610 Q	0.290 Q	2.000
RK-257+00-IC 8 - 10	08/24/05	72.4	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	0.530	0.100 Q	0.630
RK-259+00-IC 0 - 5	08/24/05	28.1	< 0.094	< 0.094	< 0.094	< 0.094	0.380	1.600	0.460	2.400
RK-259+00-IC 5 - 18	08/24/05	38.0	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	0.070 Q	< 0.070	0.070 Q
RK-263+50-IC 0 - 6	08/23/05	40.5	< 0.066	< 0.066	< 0.066	< 0.066	< 0.066	0.880	0.200 Q	1.100
RK-263+50-IC 6 - 8	08/23/05	48.4	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055
RK-265+00-IC 0 - 7	08/23/05	52.1	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	1.400	0.360	1.800
RK-265+00-IC 7 - 17	08/23/05	37.6	< 0.071	< 0.071	< 0.071	< 0.071	< 0.071	0.084 Q	< 0.071	0.084 Q
RL-266+40-IC 0 - 7	08/23/05	46.3	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.620	0.150 Q	0.770
RL-266+40-IC 7 - 9	08/23/05	69.2	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.076 Q	< 0.038	0.076 Q
RL-268+70-IC 0 - 7	08/23/05	39.4	< 0.067	< 0.067	< 0.067	< 0.067	< 0.067	0.640	0.150 Q	0.790
RL-268+70-IC 7 - 14	08/23/05	47.3	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
RL-272+00-IC 0 - 2	08/23/05	63.8	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	0.410	0.094 Q	0.510
RL-272+00-IC 2 - 8	08/23/05	68.6	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	0.240	0.055 Q	0.300
RL-277+70-IC 0 - 8	08/23/05	58.8	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.580	0.120 Q	0.700
RL-277+70-IC 8 - 10	08/23/05	69.7	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.088 Q	< 0.038	0.088 Q
RL-282+00-IC 0 - 10	08/23/05	64.3	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	1.300	0.270	1.600
RM-287+50-IC 0 - 6	08/23/05	na	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.750	0.160	0.910
RM-287+50-IC 6 - 12	08/23/05	61.2	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043
RM-290+00-IC 0 - 7	08/23/05	57.7	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	0.650	0.140 Q	0.790
RM-293+30-IC 0 - 8	08/23/05	44.8	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	0.900	0.190 Q	1.100
RM-293+30-IC 8 - 11	08/23/05	78.9	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034
RM-295+40-IC 0 - 7	08/23/05	58.4	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	1.200	0.250	1.500
RM-295+40-IC 7 - 12	08/23/05	56.1	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
RM-298+50-IC 0 - 11	08/23/05	50.3	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.380	0.088 Q	0.470
RN-304+50-IC 0 - 7	08/23/05	38.3	< 0.069	< 0.069	< 0.069	< 0.069	< 0.069	1.100	0.310	1.400
RN-304+50-IC 7 - 15	08/23/05	49.0	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	0.076 Q	< 0.054	0.076 Q
RN-307+60-IC 0 - 10	08/23/05	42.1	< 0.063	< 0.063	< 0.063	< 0.063	< 0.063	1.300	0.340	1.600
RN-311+60-IC 0 - 8	08/23/05	56.4	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.800	0.180	0.980
RN-311+60-IC 8 - 10	08/23/05	77.9	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	0.060 Q	< 0.034	0.060 Q
RN-314+00-IC 0 - 11	08/23/05	52.4	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	1.500	0.260	1.800
RN-317+00-IC 0 - 8	08/23/05	28.8	< 0.092	< 0.092	< 0.092	< 0.092	< 0.092	1.200	0.300 Q	1.500
RO-319+60-IC 0 - 9	08/23/05	32.9	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	1.700	0.450	2.100
RO-319+60-IC 9 - 12	08/23/05	74.7	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	0.075 Q	< 0.036	0.075 Q
RO-323+20-IC 0 - 6	08/23/05	25.7	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	2.500	0.570	3.100
RO-323+20-IC 6 - 9	08/23/05	60.9	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	0.210	0.047 Q	0.260
RO-326+00-IC 0 - 14	08/23/05	45.8	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	0.260	< 0.058	0.260
RO-327+70-IC 0 - 6	08/23/05	27.8	< 0.095	< 0.095	< 0.095	< 0.095	< 0.095	1.200	0.320 Q	1.500

Table 5. Overbank Analytical Results Summary
HARP OU2/L & OU3

Sample Location and Depth (Inches)	Sample Date	Percent Solids	PCB Aroclors (mg/kg)							Total PCBs (mg/kg)
			1016	1221	1232	1242	1248	1254	1260	
RL-272+00-E20 0 - 6	09/15/05	78.4	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	0.200	0.230	0.430
RL-272+00-W10 0 - 6	09/15/05	71.3	< 0.560	< 0.560	< 0.560	< 0.560	< 0.560	7.100	2.100	9.200
RL-272+00-W10 6 - 12	09/15/05	69.9	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.560	0.150	0.720
RL-272+00-W40 0 - 6	10/03/05	61.8	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	0.280	0.094 Q	0.370
RL-274+40-S10 0 - 6	09/16/05	69.4	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	1.700	0.340 Q	2.000
RL-274+40-S30 0 - 6	09/16/05	74.4	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	0.052 Q	< 0.036	0.052 Q
RL-275+80-E10 0 - 6	09/15/05	63.4	< 0.630	< 0.630	< 0.630	< 0.630	< 0.630	6.100	2.200	8.300
RL-275+80-E10 6 - 12	09/15/05	57.4	< 1.900	< 1.900	< 1.900	< 1.900	< 1.900	19.000	5.500 Q	25.000
RL-275+80-E10 12 - 30	09/15/05	73.7	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036
RL-275+80-E40 0 - 6	09/30/05	63.3	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	0.260	0.053 Q	0.310
RL-277+70-E20 0 - 6	09/15/05	65.6	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	2.700	0.700	3.400
RL-277+70-E20 6 - 12	09/15/05	59.2	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.260	0.086 Q	0.350
RL-277+70-W10 0 - 6	09/16/05	55.0	< 0.960	< 0.960	< 0.960	< 0.960	< 0.960	9.000	2.400 Q	11.000
RL-277+70-W10 6 - 12	09/16/05	43.9	< 2.400	< 2.400	< 2.400	< 2.400	< 2.400	22.000	6.400 Q	29.000
RL-277+70-W10 12 - 24	09/16/05	41.9	< 0.320	< 0.320	< 0.320	< 0.320	< 0.320	2.400	0.680 Q	3.100
RL-277+70-W40 0 - 6	09/16/05	73.6	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	2.600	0.590 Q	3.200
RL-278+00-W100 0 - 6	09/16/05	73.7	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	0.160	0.036 Q	0.190
RL-279+50-E100 0 - 6	09/15/05	58.2	< 0.091	< 0.091	< 0.091	< 0.091	< 0.091	1.500	0.440	1.900
RL-280+10-E10 0 - 6	09/16/05	69.0	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	1.700	0.360 Q	2.000
RL-280+10-E30 0 - 6	09/16/05	70.1	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.280	0.055 Q	0.330
RL-280+10-W15 0 - 6	09/16/05	70.0	< 1.100	< 1.100	< 1.100	< 1.100	< 1.100	12.000	2.900 Q	15.000
RL-280+10-W15 6 - 12	09/16/05	67.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	0.980	0.210 Q	1.200
RL-280+10-W30 0 - 6	09/16/05	73.8	< 0.180	< 0.180	< 0.180	< 0.180	< 0.180	2.300	0.530 Q	2.800
RL-280+10-W5 0 - 6	09/16/05	50.0	< 0.800	< 0.800	< 0.800	< 0.800	< 0.800	7.000	1.900 Q	9.000
RL-280+10-W5 6 - 12	09/16/05	43.1	< 0.310	< 0.310	< 0.310	< 0.310	< 0.310	5.900	1.600	7.500
RL-280+10-W5 12 - 18	09/16/05	64.9	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	1.500	0.440	1.900
RL-281+80-S15 0 - 6	09/16/05	63.2	< 1.700	< 1.700	< 1.700	< 1.700	< 1.700	21.000	4.100 Q	25.000
RL-281+80-S15 6 - 12	09/16/05	63.7	< 0.083	< 0.083	< 0.083	< 0.083	< 0.083	1.200	0.240 Q	1.400
RL-281+80-S40 0 - 6	09/16/05	70.5	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	1.600	0.330 Q	1.900
RL-281+90-S5 0 - 6	09/16/05	62.8	< 0.850	< 0.850	< 0.850	< 0.850	< 0.850	8.100	2.100 Q	10.000
RL-281+90-S5 6 - 12	09/16/05	58.0	< 1.400	< 1.400	< 1.400	< 1.400	< 1.400	14.000	3.100 Q	17.000
RL-281+90-S5 12 - 18	09/16/05	57.0	< 1.900	< 1.900	< 1.900	< 1.900	< 1.900	20.000	4.800 Q	25.000
RL-282+50-N20 0 - 6	09/16/05	66.8	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	3.400	0.710 Q	4.100
RL-282+50-N40 0 - 6	10/03/05	72.7	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	0.065 Q	< 0.037	0.065 Q
RL-282+50-S10 0 - 6	10/03/05	70.1	< 0.380	< 0.380	< 0.380	< 0.380	< 0.380	4.800	1.200 Q	6.000
RL-282+50-S10 6 - 12	10/03/05	78.0	< 0.034	< 0.034	< 0.034	< 0.034	< 0.034	0.080 Q	0.040 Q	0.120
RL-282+50-S30 0 - 6	11/14/05	68.0	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	0.088 Q	< 0.039	0.088 Q
RL-282+50-S30 6 - 12	11/14/05	79.8	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
RL-282+50-S30 12 - 24	11/14/05	81.5	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033
RM-285+50-E30 0 - 6	09/16/05	71.0	< 0.260	< 0.260	< 0.260	< 0.260	< 0.260	3.500	0.590 Q	4.100
RM-285+50-E5 0 - 6	09/16/05	49.4	< 0.810	< 0.810	< 0.810	< 0.810	< 0.810	9.000	2.300 Q	11.000
RM-285+50-E5 6 - 12	09/16/05	55.3	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	3.000	0.770 Q	3.800

Table 5. Overbank Analytical Results Summary
HARP OU2/L & OU3

Sample Location and Depth (Inches)	Sample Date	Percent Solids	PCB Aroclors (mg/kg)							Total PCBs (mg/kg)
			1016	1221	1232	1242	1248	1254	1260	
RM-285+50-W25 0 - 6	09/16/05	84.8	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	0.150	0.062 Q	0.210
RM-285+50-W5 0 - 6	09/16/05	75.2	< 0.110	< 0.110	< 0.110	< 0.110	< 0.110	1.100	0.500	1.600
RM-287+50-E15 0 - 6	09/20/05	61.3	< 0.170	< 0.170	< 0.170	< 0.170	< 0.170	2.900	0.650	3.600
RM-287+50-W30 0 - 6	09/19/05	72.2	< 0.370	< 0.370	< 0.370	< 0.370	< 0.370	4.800	0.860 Q	5.700
RM-287+50-W30 6 - 12	09/19/05	74.7	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	0.190	< 0.036	0.190
RM-287+50-W5 0 - 6	09/19/05	59.5	< 0.670	< 0.670	< 0.670	< 0.670	< 0.670	6.200	1.200 Q	7.400
RM-287+50-W5 6 - 12	09/19/05	60.1	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	0.190	< 0.044	0.190
RM-287+50-W50 0 - 6	10/03/05	74.2	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	0.350	0.070 Q	0.420
RM-289+00-W10 0 - 6	09/19/05	71.2	< 1.500	< 1.500	< 1.500	< 1.500	< 1.500	17.000	3.200 Q	20.000
RM-289+00-W10 6 - 12	09/19/05	76.3	< 0.520	< 0.520	< 0.520	< 0.520	< 0.520	8.000	1.400 Q	9.400
RM-289+00-W10 12 - 24	09/19/05	63.7	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	0.570	0.140	0.710
RM-289+00-W40 0 - 6	10/03/05	71.1	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	1.500	0.330 Q	1.800
RM-290+00-E100 0 - 6	09/20/05	61.2	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	1.500	0.340	1.800
RM-290+00-W100 0 - 6	09/19/05	66.1	< 0.280	< 0.280	< 0.280	< 0.280	< 0.280	3.100	0.630 Q	3.800
RM-292+30-N10 0 - 6	09/19/05	55.4	< 0.480	< 0.480	< 0.480	< 0.480	< 0.480	7.800	1.300 Q	9.000
RM-292+30-N10 6 - 12	09/19/05	57.5	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	0.170	< 0.046	0.170
RM-292+30-N10 12 - 24	09/19/05	48.4	< 0.055	< 0.055	< 0.055	< 0.055	< 0.055	0.130 Q	< 0.055	0.130 Q
RM-292+30-N40 0 - 6	10/03/05	43.9	< 0.061	< 0.061	< 0.061	< 0.061	< 0.061	0.610	0.170 Q	0.780
RM-292+30-S10 0 - 6	09/19/05	72.0	< 0.920	< 0.920	< 0.920	< 0.920	< 0.920	8.000	2.200 Q	10.000
RM-292+30-S10 6 - 12	09/19/05	67.0	< 1.600	< 1.600	< 1.600	< 1.600	< 1.600	23.000	4.900 Q	28.000
RM-292+30-S10 12 - 24	09/19/05	64.1	< 0.170	< 0.170	< 0.170	< 0.170	< 0.170	1.700	0.440 Q	2.200
RM-292+30-S40 0 - 6	09/19/05	62.5	< 0.640	< 0.640	< 0.640	< 0.640	< 0.640	6.300	1.200 Q	7.500
RM-292+30-S40 6 - 12	09/19/05	80.0	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	0.160	< 0.033	0.160
RM-292+30-S80 0 - 6	09/19/05	69.2	< 0.350	< 0.350	< 0.350	< 0.350	< 0.350	3.700	0.700 Q	4.400
RM-293+30-N10 0 - 6	09/19/05	60.4	< 1.300	< 1.300	< 1.300	< 1.300	< 1.300	16.000	3.000 Q	19.000
RM-293+30-N10 6 - 12	09/19/05	69.1	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.490	0.087 Q	0.580
RM-293+30-N40 0 - 6	10/03/05	56.4	< 0.014	< 0.014	< 0.014	< 0.014	< 0.014	0.130	0.030 Q	0.160
RM-293+30-S10 0 - 6	09/19/05	71.2	< 0.220	< 0.220	< 0.220	< 0.220	< 0.220	2.400	0.570 Q	3.000
RM-293+30-S30 0 - 6	09/19/05	54.5	< 0.970	< 0.970	< 0.970	< 0.970	< 0.970	8.800	1.800 Q	11.000
RM-293+30-S30 6 - 12	09/19/05	65.7	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.098 Q	< 0.040	0.098 Q
RM-294+20-S10 0 - 6	10/03/05	58.0	< 1.800	< 1.800	< 1.800	< 1.800	< 1.800	22.000	5.600 Q	28.000
RM-294+20-S10 6 - 12	10/03/05	58.6	< 2.300	< 2.300	< 2.300	< 2.300	< 2.300	25.000	5.300 Q	30.000
RM-294+20-S10 12 - 21	10/03/05	59.4	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.120 Q	< 0.045	0.120 Q
RM-294+20-S30 0 - 6	10/03/05	67.6	< 0.079	< 0.079	< 0.079	< 0.079	< 0.079	0.940	0.190 Q	1.100
RM-296+50-E20 0 - 6	09/19/05	57.0	< 0.700	< 0.700	< 0.700	< 0.700	< 0.700	6.100	1.200 Q	7.300
RM-296+50-E20 6 - 12	09/19/05	64.4	< 0.620	< 0.620	< 0.620	< 0.620	< 0.620	5.100	1.400 Q	6.500
RM-296+50-E20 12 - 24	09/19/05	62.1	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	0.100 Q	< 0.043	0.100 Q
RM-296+50-E50 0 - 6	10/03/05	57.0	< 0.190	< 0.190	< 0.190	< 0.190	< 0.190	1.900	0.380 Q	2.200
RM-296+50-W10 0 - 6	09/19/05	69.8	< 0.380	< 0.380	< 0.380	< 0.380	< 0.380	9.400	1.900	11.000
RM-296+50-W10 6 - 12	09/19/05	71.1	< 0.150	< 0.150	< 0.150	< 0.150	< 0.150	1.900	0.410 Q	2.300
RM-296+50-W40 0 - 6	09/19/05	62.4	< 0.430	< 0.430	< 0.430	< 0.430	< 0.430	4.900	0.900 Q	5.800
RM-296+50-W40 6 - 12	09/19/05	57.4	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	0.230	0.049 Q	0.280

Table 5. Overbank Analytical Results Summary
HARP OU2/L & OU3

Sample Location and Depth (Inches)	Sample Date	Percent Solids	PCB Aroclors (mg/kg)							Total PCBs (mg/kg)
			1016	1221	1232	1242	1248	1254	1260	
RM-296+50-W60 0 - 6	10/03/05	61.6	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	0.230	0.049 Q	0.280
RM-297+90-E10 0 - 6	09/19/05	61.7	< 0.650	< 0.650	< 0.650	< 0.650	< 0.650	7.600	1.400 Q	9.000
RM-297+90-E10 6 - 12	09/19/05	69.2	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.170	< 0.038	0.170
RM-297+90-E25 0 - 6	09/19/05	67.0	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	6.400	1.200 Q	7.600
RM-297+90-E25 6 - 12	09/19/05	70.8	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	0.120 Q	< 0.038	0.120 Q
RM-297+90-E50 0 - 6	10/03/05	59.4	< 0.310	< 0.310	< 0.310	< 0.310	< 0.310	2.800	0.630 Q	3.400
RM-298+00-W120 0 - 6	10/03/05	63.6	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	1.400	0.340 Q	1.700
RM-298+90-E100 0 - 6	09/19/05	56.9	< 0.470	< 0.470	< 0.470	< 0.470	< 0.470	6.900	1.400 Q	8.300
RM-298+90-E100 6 - 12	09/19/05	62.0	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	0.300	0.070 Q	0.370
RM-298+90-E120 0 - 6	10/03/05	54.8	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	0.360	0.120 Q	0.480
RM-299+90-N15 0 - 6	09/19/05	52.6	< 1.300	< 1.300	< 1.300	< 1.300	< 1.300	15.000	2.300 Q	17.000
RM-299+90-N15 6 - 12	09/19/05	39.9	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	2.000	0.370 Q	2.400
RM-299+90-N15 12 - 21	09/19/05	48.3	< 0.220	< 0.220	< 0.220	< 0.220	< 0.220	2.200	0.500 Q	2.700
RM-299+90-N40 0 - 6	10/03/05	46.2	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460	4.100	1.100 Q	5.200
RM-299+90-N40 6 - 12	10/03/05	51.9	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	0.760	0.170 Q	0.930
RM-299+90-N60 0 - 6	11/14/05	49.9	< 0.160	< 0.160	< 0.160	< 0.160	< 0.160	2.400	0.510 Q	2.900
RM-299+90-S10 0 - 6	09/19/05	60.8	< 1.700	< 1.700	< 1.700	< 1.700	< 1.700	13.000	2.900 Q	15.000
RM-299+90-S10 6 - 12	09/19/05	57.5	< 1.400	< 1.400	< 1.400	< 1.400	< 1.400	9.700	2.500 Q	12.000
RM-299+90-S10 12 - 24	09/19/05	56.7	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
RM-299+90-S20 0 - 6	09/19/05	59.3	< 1.800	< 1.800	< 1.800	< 1.800	< 1.800	23.000	4.900 Q	28.000
RM-299+90-S20 6 - 12	09/19/05	69.2	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	1.200	0.280	1.400
RM-299+90-S20 12 - 24	09/19/05	63.6	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	0.340	0.071 Q	0.420
RM-299+90-S50 0 - 6	10/03/05	71.2	< 0.190	< 0.190	< 0.190	< 0.190	< 0.190	1.800	0.430 Q	2.300
RM-301+00-N10 0 - 6	09/19/05	60.6	< 1.300	< 1.300	< 1.300	< 1.300	< 1.300	13.000	2.300 Q	15.000
RM-301+00-N10 6 - 12	09/19/05	66.3	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.220	0.041 Q	0.260
RM-301+00-N10 12 - 27	09/19/05	63.6	< 0.130	< 0.130	< 0.130	< 0.130	< 0.130	1.200	0.320 Q	1.500
RM-301+00-N30 0 - 6	09/19/05	52.8	< 1.500	< 1.500	< 1.500	< 1.500	< 1.500	17.000	2.900 Q	20.000
RM-301+00-N30 6 - 12	09/19/05	56.4	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	0.160 Q	< 0.047	0.160 Q
RM-301+00-N30 12 - 30	09/19/05	44.0	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	0.300	0.062 Q	0.370
RM-301+00-N60 0 - 6	10/03/05	40.9	< 2.600	< 2.600	< 2.600	< 2.600	< 2.600	34.000	7.700 Q	42.000
RM-301+00-N60 6 - 12	10/03/05	44.5	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	0.078 QB	< 0.060	0.078 Q
RM-301+00-N60 12 - 18	10/03/05	36.5	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073
RM-301+00-N80 0 - 6	11/14/05	38.0	< 1.000	< 1.000	< 1.000	< 1.000	< 1.000	14.000	3.200 Q	17.000
RM-301+00-N80 6 - 12	11/14/05	52.0	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051
RM-301+00-S100 0 - 6	09/19/05	56.3	< 1.900	< 1.900	< 1.900	< 1.900	< 1.900	19.000	3.700 Q	23.000
RM-301+00-S100 6 - 12	09/19/05	60.8	< 0.044	< 0.044	< 0.044	< 0.044	< 0.044	0.150	< 0.044	0.150
RM-301+00-S100 12 - 27	09/19/05	56.8	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047
RM-301+40-N40 0 - 6	11/14/05	47.4	< 0.560	< 0.560	< 0.560	< 0.560	< 0.560	5.900	1.400 Q	7.200
RM-301+40-N40 6 - 12	11/14/05	56.0	< 0.047	< 0.047	< 0.047	< 0.047	< 0.047	1.700	0.260	1.900
RM-302+20-S10 0 - 6	09/19/05	56.6	< 1.900	< 1.900	< 1.900	< 1.900	< 1.900	18.000	4.300 Q	22.000
RM-302+20-S10 6 - 12	09/19/05	59.1	< 1.800	< 1.800	< 1.800	< 1.800	< 1.800	13.000	3.300 Q	16.000
RM-302+20-S10 12 - 30	09/19/05	53.6	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.170	< 0.050	0.170

Table 5. Overbank Analytical Results Summary
HARP OU2/L & OU3

Sample Location and Depth (Inches)	Sample Date	Percent Solids	PCB Aroclors (mg/kg)							Total PCBs (mg/kg)
			1016	1221	1232	1242	1248	1254	1260	
RM-302+20-S185 0 - 6	10/03/05	66.7	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	0.053 Q	< 0.040	0.053 Q
RM-302+20-S30 0 - 6	09/19/05	64.3	< 2.100	< 2.100	< 2.100	< 2.100	< 2.100	31.000	6.600 Q	37.000
RM-302+20-S30 6 - 12	09/19/05	73.7	< 0.072	< 0.072	< 0.072	< 0.072	< 0.072	0.720	0.160 Q	0.880
RM-302+20-S30 12 - 24	09/19/05	67.8	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	0.230	0.051 Q	0.280
RM-302+20-S70 0 - 6	09/19/05	58.5	< 2.300	< 2.300	< 2.300	< 2.300	< 2.300	30.000	6.200 Q	36.000
RM-302+20-S70 6 - 12	09/19/05	64.8	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	0.130 Q	< 0.041	0.130 Q
RM-302+20-S70 12 - 24	09/19/05	45.6	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	0.072 Q	< 0.058	0.072 Q
RM-303+10-N40 0 - 6	11/14/05	53.3	< 1.500	< 1.500	< 1.500	< 1.500	< 1.500	21.000	5.700	26.000
RM-303+10-N40 6 - 12	11/14/05	54.9	< 0.048	< 0.048	< 0.048	< 0.048	< 0.048	0.590	0.110 Q	0.700
RM-303+10-N40 12 - 24	11/14/05	36.4	< 0.073	< 0.073	< 0.073	< 0.073	< 0.073	0.150 Q	< 0.073	0.150 Q
RM-303+30-N10 0 - 6	09/19/05	56.0	< 0.950	< 0.950	< 0.950	< 0.950	< 0.950	7.300	1.300 Q	8.600
RM-303+30-N10 6 - 12	09/19/05	51.3	< 2.100	< 2.100	< 2.100	< 2.100	< 2.100	18.000	5.300 Q	23.000
RM-303+30-N10 12 - 27	09/19/05	52.5	< 0.051	< 0.051	< 0.051	< 0.051	< 0.051	0.210	0.055 Q	0.270
RM-303+30-N25 0 - 6	09/19/05	56.5	< 1.400	< 1.400	< 1.400	< 1.400	< 1.400	12.000	2.100 Q	14.000
RM-303+30-N25 6 - 12	09/19/05	67.0	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	0.930	0.210 Q	1.100
RM-303+30-N50 0 - 6	09/19/05	53.5	< 0.450	< 0.450	< 0.450	< 0.450	< 0.450	5.000	0.860 Q	5.900
RM-303+30-N50 6 - 12	09/19/05	54.0	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.240	0.061 Q	0.300
RM-303+30-N70 0 - 6	10/03/05	48.6	< 1.100	< 1.100	< 1.100	< 1.100	< 1.100	9.400	3.100 Q	12.000
RM-303+30-N70 6 - 12	10/03/05	51.0	< 0.052	< 0.052	< 0.052	< 0.052	< 0.052	0.300	0.083 Q	0.380
RM-303+30-N90 0 - 6	11/14/05	45.2	< 0.590	< 0.590	< 0.590	< 0.590	< 0.590	8.400	2.100	11.000
RM-303+30-N90 6 - 12	11/14/05	53.2	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.095 Q	< 0.050	0.095 Q
RM-303+50-N40 0 - 6	11/14/05	47.3	< 0.280	< 0.280	< 0.280	< 0.280	< 0.280	4.600	0.910 Q	5.500
RM-303+50-N40 6 - 12	11/14/05	47.6	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056
RN-305+90-N10 0 - 6	09/20/05	53.0	< 1.300	< 1.300	< 1.300	< 1.300	< 1.300	18.000	3.900 Q	22.000
RN-305+90-N10 6 - 12	09/20/05	57.4	< 0.690	< 0.690	< 0.690	< 0.690	< 0.690	7.300	1.400 Q	8.800
RN-305+90-N10 12 - 30	09/20/05	49.9	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.330	0.075 Q	0.400
RN-305+90-N60 0 - 6	09/20/05	54.2	< 0.980	< 0.980	< 0.980	< 0.980	< 0.980	14.000	2.300 Q	16.000
RN-305+90-N60 6 - 12	09/20/05	54.2	< 0.049	< 0.049	< 0.049	< 0.049	< 0.049	0.760	0.150 Q	0.910
RN-305+90-N90 0 - 6	10/04/05	55.0	< 0.240	< 0.240	< 0.240	< 0.240	< 0.240	2.600	0.430 Q	3.000
RN-305+90-S10 0 - 6	09/20/05	45.7	< 0.870	< 0.870	< 0.870	< 0.870	< 0.870	13.000	2.400 Q	15.000
RN-305+90-S10 6 - 12	09/20/05	51.1	< 0.052	< 0.052	< 0.052	< 0.052	< 0.052	0.730	0.160 Q	0.890
RN-305+90-S10 12 - 24	09/20/05	42.6	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.320	0.075 Q	0.400
RN-305+90-S40 0 - 6	10/04/05	58.8	< 0.140	< 0.140	< 0.140	< 0.140	< 0.140	1.400	< 0.140	1.400
RN-307+60-S10 0 - 6	09/20/05	50.4	< 0.790	< 0.790	< 0.790	< 0.790	< 0.790	5.800	1.400 Q	7.100
RN-307+60-S10 6 - 12	09/20/05	43.3	< 1.500	< 1.500	< 1.500	< 1.500	< 1.500	10.000	2.100 Q	12.000
RN-307+60-S10 12 - 18	09/20/05	70.0	< 1.100	< 1.100	< 1.100	< 1.100	< 1.100	9.400	2.000 Q	11.000
RN-307+60-S10 18 - 27	09/20/05	76.6	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	0.340	0.067 Q	0.410
RN-307+60-S50 0 - 6	09/20/05	60.9	< 0.870	< 0.870	< 0.870	< 0.870	< 0.870	12.000	2.200 Q	15.000
RN-307+60-S50 6 - 12	09/20/05	64.0	< 0.041	< 0.041	< 0.041	< 0.041	< 0.041	0.260	0.049 Q	0.310
RN-307+60-S80 0 - 6	10/04/05	57.6	< 0.460	< 0.460	< 0.460	< 0.460	< 0.460	5.100	0.850 Q	6.000
RN-307+60-S80 6 - 12	10/04/05	57.8	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046	< 0.046
RN-307+80-S90 0 - 6	11/14/05	43.9	< 1.200	< 1.200	< 1.200	< 1.200	< 1.200	32.000	4.800	37.000

Table 6. Historic Sediment Analytical Results
HARP OU2/L & OU3

Location	Total PCBs (mg/kg)
RE-122+90-IC-RS	3.300
RE-124+00-IC-RS	2.100
RE-126+60-IC	2.100
RF-131+50-OXBOW	6.600
RF-147+50-IC	3.400
RF-150+00-IC	7.700
RF-ST4-IC	2.500
RF-156+20-IC	5.300
RG-172+50-IC	5.200
RG-180+10-IC	2.100
RG-183+00-IC-RS	7.000
RG-191+50-IC-RS	2.000
RG-198+00-IC-RS	2.000
RG-202+50-IC-RS	3.900
RG-205+00-IC-RS	5.800
RI-220+00-IC	9.700
RI-225+00-IC	6.500
RI-229+00-IC	8.900
RJ-233+00-IC	20.000
RJ-238+60-IC	0.120
RJ-245+00-IC-RS	1.600
RK-254+50-IC-RS	8.000
RK-261+00-IC-RS	0.750
RK-265+50-IC-RS	5.600
RL-270+00-IC-RS	0.070
RL-275+80-IC-RS	0.050
RL-279+00-IC-RS	1.100
RM-285+00-IC-RS	0.090
RM-291+00-IC-RS	4.100
RM-296+90-IC-RS	2.500
RM-302+70-IC-RS	1.500
RN-308+80-IC-RS	3.800
RN-314+90-IC-RS	11.000
RO-320+80-IC-RS	1.300
RO-328+20-IC-RS	8.000
RO-330+20-IC-RS	5.300
RP-331+90-IC-RS	13.000
RP-337+90-IC-RS	4.600

Notes:

1) Historic sampling data collected by Earth Tech in 2003.

Table 9. Sample Replicate List and Results
HARP OU2/L and OU3

Lab Sample Number	Field ID	Total PCBs (mg/kg)	Collection Date	Matrix	Relative Percentage Difference[A]
863052-004	RP-331+70-IC 0-12	1.2	08/22/05	SEDIMENT	58%
863052-007	RP-331+70-IC 0-12R	0.66	08/22/05	SEDIMENT	
863052-025	RL-282+00-IC 0-10	1.6	08/23/05	SEDIMENT	69%
863052-026	RL-282+00-IC 0-10R	3.3	08/23/05	SEDIMENT	
863089-011	RJ-237+00-IC 0-10	3.3	08/24/05	SEDIMENT	3%
863089-012	RJ-237+00-IC 0-10R	3.4	08/24/05	SEDIMENT	
863089-021	RG-205+90-IC 0-10	2.3	08/24/05	SEDIMENT	36%
863089-022	RG-205+90-IC 0-10R	3.3	08/24/05	SEDIMENT	
863229-016	RE-125+90-N10 0-6	3.6	08/29/05	SOIL	3%
863229-015	RE-125+90-N10 0-6R	3.7	08/29/05	SOIL	
863273-009	RF-137+80-W10 0-6	29	08/30/05	SOIL	11%
863273-010	RF-137+80-W10 0-6R	26	08/30/05	SOIL	
863335-002	RF-137+80-W40 0-6	20	08/30/05	SOIL	58%
863335-004	RF-137+80-W40 0-6R	11	08/30/05	SOIL	
863335-011	RF-140+50-E50 0-6	32	08/31/05	SOIL	44%
863335-013	RF-140+50-E50 0-6R	50	08/31/05	SOIL	
863384-016	RF-151+00-E30 0-6	30	09/01/05	SOIL	NA
The laboratory did not receive sample RF-REP1-050901 (although it was listed on the COC).					
863449-005	RF-170+00-S70 0-6	38	09/02/05	SOIL	53%
863449-004	RF-REP2-050902	22	09/02/05	SOIL	
863503-002	RF-164+80-W170 0-6	12	09/06/05	SOIL	8%
863503-001	RF-REP3-050906	13	09/06/05	SOIL	
863551-004	RG-173+10-W60 0-6	5.3	09/07/05	SOIL	8%
863551-001	RG-REP4-050907	4.9	09/07/05	SOIL	
863606-005	RG-183+20-W10 0-6	5.5	09/08/05	SOIL	31%
863606-001	RG-REP5-050908	7.5	09/08/05	SOIL	
863663-005	RG-191+20-E40 0-6	2.1	09/08/05	SOIL	15%
863663-001	RG-REP6-050909	1.8	09/09/05	SOIL	
863719-009	RH-209+50-W50 0-6	<0.034	09/12/05	SOIL	3%
863719-016	RH-REP7-050912	<0.033	09/12/05	SOIL	
863719-022	RI-218+50-N10 0-6	17	09/12/05	SOIL	34%
863719-027	RI-REP7-050912	12	09/12/05	SOIL	
863790-005	RI-221+60-S25 0-6	1.6	09/13/05	SOIL	36%
863790-002	RI-REP8-050913	2.3	09/13/05	SOIL	
863790-027	RJ-233+00-S10 0-6	40	09/13/05	SOIL	0%
863790-031	RJ-REP8A-050913	40	09/13/05	SOIL	
863888-005	RJ-236+50-N30 0-6	25	09/14/05	SOIL	44%
863888-004	RJ-REP9-050914	16	09/14/05	SOIL	
863951-003	RK-257+00-E10 0-6	18	09/15/05	SOIL	6%
863951-002	RK-REP10-050915	17	09/15/05	SOIL	
864088-012	RL-281+90-S5 0-6	10	09/16/05	SOIL	10%
864088-020	RL-REP11-050916	11	09/16/05	SOIL	
864071-008	RM-289+00-W10 0-6	20	09/19/05	SOIL	114%
864071-002	RM-REP12-050919	5.5	09/19/05	SOIL	

Table 9. Sample Replicate List and Results
HARP OU2/L and OU3

Lab Sample Number	Field ID	Total PCBs (mg/kg)	Collection Date	Matrix	Relative Percentage Difference[A]
864071-030	RM-299+90-N15 0-6	17	09/19/05	SOIL	6%
864071-029	RM-REP13-050919	16	09/19/05	SOIL	
864153-005	RN-305+90-N60(0-6)	16	09/20/05	SOIL	6%
864153-002	RN-REP14-050920	15	09/20/05	SOIL	
864153-016	RO-318+20-N50(0-6)	44	09/20/05	SOIL	26%
864153-017	RO-REP15-050920	34	09/20/05	SOIL	
864226-003	RO-324+00-S10 0-6	8.4	09/21/05	SOIL	6%
864226-001	RO-REP16-050921	8.9	09/21/05	SOIL	
864343-004	RE-123+90-E30 0-6	1.5	09/26/05	SOIL	7%
864343-001	RE-REP17-050926	1.4	09/26/05	SOIL	
864411-012	RF-REP18-050927	6.6	09/27/05	SOIL	22%
864411-007	RF-WC148+20-S40 0-6	5.3	09/27/05	SOIL	
864411-027	RG-174+00-W60 0-6	13	09/27/05	SOIL	8%
864411-030	RG-REP18-050927	12	09/27/05	SOIL	
864473-009	RG-179+00-E30 0-6	0.53	09/27/05	SOIL	7%
864473-007	RG-REP19-050928	0.57	09/27/05	SOIL	
864535-024	RJ-233+00-N10 0-6	29	09/29/05	SOIL	4%
864535-021	RJ-REP20-050929	28	09/29/05	SOIL	
864811-011	RL-268+70-E60 0-6	1.5	09/30/05	SOIL	119%
864811-010	RL-REP21-050930	0.38	09/30/05	SOIL	
864648-003	RL-282+50-N40 0-6	0.065Q	10/03/05	SOIL	26%
864648-002	RL-REP22-051003	0.084Q	10/03/05	SOIL	
864714-006	RN-307+60-S80 0-6	6.0	10/04/05	SOIL	26%
864714-011	RN-REP23-051004	4.6	10/04/05	SOIL	
864718-006	RP-338+00-S40 0-6	0.12	10/05/05	SOIL	26%
864718-007	RP-REP24-051005	0.092	10/05/05	SOIL	
866262-014	RF-140+10-E10 0-6	17	11/07/05	SOIL	13%
866262-018	RF-REP25-051107	15	11/07/05	SOIL	
866326-026	RF-145+65-S10 0-6	25	11/08/05	SOIL	8%
866326-025	RF-REP26-051108	23	11/08/05	SOIL	
866326-021	RF-164+50-W10 0-6	86	11/09/05	SOIL	32%
866326-018	RF-REP27-051109	62	11/09/05	SOIL	
866395-004	RF-168+00-W10 0-6	18	11/10/05	SOIL	24%
866395-007	RF-REP28-051110	23	11/10/05	SOIL	
866395-018	RG-180+10-W10 0-6	34	11/10/05	SOIL	19%
866395-019	RG-REP29-051110	28	11/10/05	SOIL	
866444-012	RJ-236+70-N60 0-6	120	11/11/05	SOIL	45%
866444-014	RJ-REP30-051111	76	11/11/05	SOIL	
866510-012	RN-316+00-S10 0-6	17	11/14/05	SOIL	55%
866510-013	RN-REP31-051114	30	11/14/05	SOIL	

NOTES:
A) The Relative Percentage Difference was calculated by dividing the difference of the two sample concentrations by the average of the two sample concentrations.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-285+50-E5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/16/2005	9/16/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.5 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 734,795 N, 2,468,786 E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **ELASTIC SILT** : MH, very dark brown (7.5YR 3/2), low to medium plasticity, no dilatency, low toughness, moist, very soft, 10% fibers; trace sand/shells.	MH			0.5					
			1.0										
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-285+50-E30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/16/2005	9/16/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.5 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 734,799 N, 2,468,810 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark brown (7.5YR 3/2), medium plasticity, rapid dilatency, low toughness, dry, very soft, 0-0.2 root mat; trace roots/fibers/medium sand.	ML								
			1.0	1 - 1.75' **ELASTIC SILT** : MH, very dark gray (7.5YR 3/1), medium plasticity, no dilatency, low toughness, moist, very soft, trace fibers/sand.	MH			0.5					
			1.5	1.75' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-285+50-W5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/16/2005	9/16/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	818.1 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 734,794 N, 2,468,758 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	0 - 0.5' **SILT** : ML, very dark brown (7.5YR 3/2), medium plasticity, rapid dilatency, low toughness, dry, very soft, 0-0.2 root mat; trace roots/fibers/medium sand.	ML								
			0.5	0.5 - 1' **ELASTIC SILT** : MH, dark gray (7.5YR 4/1), low plasticity, no dilatency, low toughness, moist, soft, trace root fibers.	MH			1					
			1.0	1 - 2.25' **LEAN CLAY** : CL, poorly graded, fine grained sand, rounded sand, greenish gray (10Y 6/1), medium plasticity, no dilatency, medium toughness, moist, soft, [well sorted], trace roots and fibers; 15% fine sand.	CL			2					
			1.5										
			2.0										
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

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Department of Natural Resources

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-287+50-E15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/20/2005	9/20/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.4 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,065 N, 2,468,786 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), low plasticity, rapid dilatency, low toughness, dry to moist, very soft, trace roots/fibers/medium sand, earthy odor.	ML			0.5					
			1.0	1 - 2' **LEAN CLAY** : CL, very dark grayish brown (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, firm, trace roots/fibers/medium sand.	CL			2					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-287+50-IC

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	8/23/2005	8/23/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	814.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,054 N, 2,468,763 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0 - 0.5' **ORGANIC SILT :** OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, moist to wet, very soft, [gyttja], trace fibers/ stems/ wood pieces; 5% sand; organic odor.	OL								
			0.5	0.5 - 1' **ORGANIC SILT** to **ELASTIC SILT :** OL, very dark gray (7.5YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, trace fibers/ shells; organic odor.	OL								
			1.0	1' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-287+50-W5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.5 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,048 N, 2,468,752 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **ELASTIC SILT :** MH, very dark grayish brown (10YR 3/2), low to medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand, earthy odor.				0.5					
			1.0	1' 10% medium gray sand, 5% wood fragments.	MH								
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-287+50-W30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.2 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,036 N, 2,468,726 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, dark brown (7.5YR 3/2), nonplastic, rapid dilatency, low toughness, dry, very soft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0 1.5	1 - 2' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, medium toughness, moist, very soft, trace roots/fibers/fine sand.	MH								
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-287+50-W50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,026 N, 2,468,708 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **SILT** : ML, very dark grayish brown (10YR 3/2), low plasticity, slow dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand.	ML								
			1.0										
			1.5	1.5 - 2.25' **LEAN CLAY** : CL, dark grayish brown (10YR 4/2), medium plasticity, no dilatency, medium toughness, moist, very soft, trace wood fragments/stems/medium sand.	CL			0.5					
			2.0										
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-289+00-W10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,134 N, 2,468,699 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, dark brown (7.5YR 3/2), nonplastic, rapid dilatency, low toughness, dry, very soft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0	1 - 2' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, medium toughness, moist, very soft, trace roots/fibers/fine sand.	MH			0.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-289+00-W40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,122 N, 2,468,672 E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT :** ML, very dark grayish brown (10YR 3/2), low plasticity, slow dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand.	ML								
			1.0	1 - 2' **LEAN CLAY :** CL, light olive brown (2.5Y 5/4), 10% yellowish brown (10YR 5/6) mottling, medium plasticity, no dilatency, medium toughness, moist, very soft, trace fine sand.	CL			0.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-290+00-E100

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/20/2005	9/20/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,230 N, 2,468,811 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, black (10YR 2/1), low plasticity, slow dilatency, low toughness, dry to moist, very soft, 5% roots/fibers to 0.5 ft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0					1.5					
			1.5	1 - 2' **ELASTIC SILT** : MH, black (10YR 2/1), low to medium plasticity, no dilatency, low toughness, dry to moist, soft, trace roots/fibers/shells, earthy odor.	MH								
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-290+00-IC

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	8/23/2005	8/23/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	814.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,231 N, 2,468,694 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0 - 0.6' **ORGANIC SILT** : OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, moist, very soft, [gyttja], 5% sand/ shells; trace fibers; crumbly texture; organic odor.	OL								
			0.5	0.5' 1" thick greenish gray clay.									
				0.6' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-290+00-W100

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,217 N, 2,468,581 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, rapid dilatency, low toughness, moist, very soft, root material to 0.1 ft, trace roots/fibers/fine sand, earthy odor.	ML								
			1.0					1.5					
			1.5	1 - 2.5' **LEAN CLAY** : CL, very dark grayish brown (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, soft, trace roots/fibers.	CL							
			2.0	2' grayish brown (10YR 5/2).									
			2.5	2.5' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-292+30-N10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.4 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,425 N, 2,468,815 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **SILT** : ML, dark brown (7.5YR 3/2), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.3 ft, trace roots/fibers/medium sand/shells, earthy odor.				0.5					
			1.0	1' very dark grayish brown (10YR 3/1).	ML								
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-292+30-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,442 N, 2,468,840 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.	MH								
			1.0										
			1.5	1.5 - 2.25' **LEAN CLAY** : CL, greenish gray (10Y 5/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.	CL								
			2.0										
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-292+30-S10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.5 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,400 N, 2,468,783 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, rapid dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers/medium sand, earthy odor.									
			1.0	1' low plasticity, trace wood fragments.	ML								
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-292+30-S40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.4 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,379 N, 2,468,758 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, rapid dilatency, low toughness, moist, very soft, root material to 0.1 ft, trace roots/fibers/fine sand, earthy odor.	ML								
			1.0 1.5	1 - 2.5' **SILT WITH SAND** : (ML)s, very dark grayish brown (10YR 3/1), 10% brown (10YR 4/3) mottling, low plasticity, rapid dilatency, low toughness, moist, very soft, 20% laminated medium rounded sand.	(ML)s								
			2.0 2.5	2.5 - 2.75' **LEAN CLAY** : CL, greenish gray (5G 5/1), medium plasticity, no dilatency, medium toughness, soft. 2.75' End of Boring.	CL								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-292+30-S80

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.1 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,356 N, 2,468,733 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, rapid dilatency, low toughness, moist, very soft, root material to 0.1 ft, trace roots/fibers/fine sand, earthy odor.	ML								
			1.0	1 - 2' **LEAN CLAY** : CL, pale brown (10YR 6/3), 20% dark gray (10YR 4/1) mottling, medium plasticity, no dilatency, medium toughness, moist, soft, trace fibers.	CL			1.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-293+30-IC

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	8/23/2005	8/23/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	814.5 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,425 N, 2,468,696 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0 - 0.7' **ORGANIC SILT :** OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, wet, very soft, [gyttja], trace fibers/ stems; 5% shells/ sand; organic odor. 0.25' 1 thick gray fine sand.	OL								
			0.5										
				0.7 - 0.9' **LEAN CLAY :** CL, gray (7.5YR 6/1), 5% greenish gray (5GY 6/1) mottling, medium plasticity, no dilatency, medium toughness, moist, very soft, thin lamination of poorly graded well sorted medium sand between silt and clay; 5% sand to 0.9.	CL			0.5					
				0.9' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-293+30-N10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,442 N, 2,468,688 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, dark brown (7.5YR 3/2), nonplastic, rapid dilatency, low toughness, dry to moist, very soft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0	1 - 2' **ELASTIC SILT** : MH, very dark gray (7.5YR 3/1), low to medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers, fine granular soil texture, earthy odor.	MH			0.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-293+30-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,471 N, 2,468,681 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.	MH			0.5					
			1.0										
			1.5	1.5 - 2' **LEAN CLAY** : CL, greenish gray (10Y 5/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.	CL			0.5					
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006

Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-293+30-S10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.9 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,408 N, 2,468,706 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, rapid dilatency, low toughness, moist, very soft, root material to 0.5 ft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0	1 - 2' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), low plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems, fine granular soil structure, earthy odor.	MH			0.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-293+30-S30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.1 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,383 N, 2,468,718 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), low to medium plasticity, no dilatency, low toughness, moist, very soft, 5% stems/fibers to 1 ft, trace roots/shells/medium sand, earthy odor.	MH			0.5					
			1.0										
			1.5	1.5 - 2.5' **LEAN CLAY** : CL, grayish brown (2.5Y 5/2), 10% yellowish red (5YR 4/6) mottling, medium plasticity, no dilatency, medium toughness, moist, very soft, mottling is vertical and appears to be associated with root casts.	CL			1					
			2.0										
			2.5	2.5' End of Boring.									

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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-294+20-S10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,384 N, 2,468,620 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers; fine granular soil texture.	MH			0.5					
			1.0	1 - 2.25' **LEAN CLAY** : CL, very dark gray (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.	CL			0.5					
			1.5	1.75' grayish brown (2.5Y 5/2).									
			2.0	2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-294+20-S30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,361 N, 2,468,622 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.75' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers; fine granular soil texture.	MH			0.5					
			1.0										
			1.5										
			2.0	1.75 - 2.75' **LEAN CLAY** : CL, very dark gray (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous. 2.25' grayish brown (2.5Y 5/2).	CL			0.5					
			2.5	2.75' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-295+40-IC

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	8/23/2005	8/23/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	814.9 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,395 N, 2,468,467 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0 - 0.6' **ORGANIC SILT :** OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, wet, very soft, [gyttja], 5% shells/ fine sand; trace fibers/ wood fragments; organic odor.	OL								
			0.5										
				0.6 - 1' **ORGANIC SILT** to **ELASTIC SILT :** OL, very dark gray (7.5YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, trace fibers/ sand; organic. 0.85' 1 diameter clump of greenish gray clay.	OL								
			1.0	1 - 1.25' **LEAN CLAY :** CL, greenish gray (5GY 6/1), medium plasticity, no dilatency, medium toughness, moist, very soft, <1% shells.	CL			1					
				1.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-296+50-E20

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,481 N, 2,468,420 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	0 - 0.5' **SILT :** ML, very dark grayish brown (10YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			0.5	0.5 - 2' **ELASTIC SILT :** MH, very dark grayish brown (10YR 3/1), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/shells/medium sand, earthy odor.	MH								
			1.0										
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-296+50-E50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,499 N, 2,468,444 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5 2.0	0 - 2.25' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.	MH								
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-296+50-W10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,440 N, 2,468,380 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **SILT :** ML, dark brown (7.5YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			1.0										
			1.5	1.5' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-296+50-W40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,415 N, 2,468,358 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **SILT** : ML, dark brown (7.5YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			1.0										
			1.5	1.5 - 2.25' **LEAN CLAY** : CL, very dark gray (7.5YR 3/1), medium plasticity, no dilatency, medium toughness, moist, very soft, trace fibers/medium sand.	CL			0.5					
			2.0	2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-296+50-W60

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,401 N, 2,468,344 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **SILT** : ML, very dark grayish brown (10YR 3/2), low plasticity, slow dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand.	ML								
			1.0										
			1.5	1.5 - 2.25' **LEAN CLAY** : CL, dark grayish brown (2.5Y 4/2), moist, very soft, homogenous.	CL			0.5					
			2.0	2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-297+90-E10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,554 N, 2,468,381 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	0 - 0.5' **SILT** : ML, very dark grayish brown (10YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			0.5	0.5 - 2' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand, earthy odor.	MH			0.5					
			1.0										
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-297+90-E25

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,558 N, 2,468,394 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 0.5' **SILT** : ML, very dark grayish brown (10YR 3/2), low plasticity, slow dilatency, low toughness, dry to moist, very soft, trace roots/fibers, earthy odor.	ML								
			1.0	0.5 - 2.25' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), low plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/shells, earthy odor. 1' trace gray medium sand.	MH			0.5					
			1.5										
			2.0										
			2.5	2.25 - 2.5' **LEAN CLAY** : CL, greenish gray (10Y 5/1), medium plasticity, no dilatency, medium toughness, moist, soft, homogenous. 2.5' End of Boring.	CL			0.5					

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-297+90-E50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,565 N, 2,468,418 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT :** MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.	MH			0.5					
			1.0										
			1.5	1.5 - 2' **LEAN CLAY :** CL, greenish gray (10Y 5/1), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.	CL			0.5					
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-298+00-W120

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,493 N, 2,468,234 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.25' **SILT** : ML, very dark gray (10YR 3/1), low plasticity, rapid dilatency, low toughness, dry, very soft, 5% roots/fibers; trace shells/medium sand. 0.5' trace roots/fibers/medium sand.	ML								
			1.0										
			1.5	1.25 - 2' **LEAN CLAY** : CL, very dark gray (10YR 3/1), medium plasticity, no dilatency, medium toughness, dry to moist, very soft, trace roots/fibers.	CL			0.5					
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm		
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-298+50-IC

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	8/23/2005	8/23/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	814.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,595 N, 2,468,396 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0 - 0.9' **ORGANIC SILT** : OL, very dark gray (7.5YR 3/1), nonplastic, no dilatency, low toughness, moist to wet, very soft, [gyttja], trace fibers/ stems; organic odor.									
			0.5	0.5' 10% sand/ shells to 0.5'.	OL								
			1.0	0.9 - 1.3' **LEAN CLAY** : CL, greenish gray (5GY 6/1), medium plasticity, no dilatency, medium toughness, moist, very soft to soft, trace fibers/ root casts; <1% shells.	CL			1					
				1.3' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel:
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	(262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-298+90-E100

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,647 N, 2,468,497 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5	0 - 1.75' **SILT** : ML, very dark gray (7.5YR 3/1), nonplastic, rapid dilatency, low toughness, dry to moist, soft, trace roots/fibers/medium sand, earthy odor.	ML								
				1.75' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-298+90-E120

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,650 N, 2,468,517 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.25' **ELASTIC SILT** : MH, very dark gray (10YR 3/1), low to medium plasticity, no dilatency, low toughness, dry, very soft, 10% roots and fibers. 0.5' trace roots/fibers.	MH			0.5					
			1.0										
			1.5	1.25 - 2' **LEAN CLAY** : CL, dark gray (10YR 4/1), medium plasticity, no dilatency, medium toughness, dry, very soft, homogenous.	CL			0.5					
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-N15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,738 N, 2,468,343 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5	0 - 1.75' **SILT :** ML, very dark grayish brown (10YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor. 0.5' very dark grayish brown (10YR 3/1), low plasticity.	ML								
				1.75' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,760 N, 2,468,355 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5 2.0 2.5	0 - 2.75' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand/stems.	MH			0.5					
				2.7' very dark gray (10YR 3/1), 1 lean clay. 2.75' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-N60

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,780 N, 2,468,356 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **ELASTIC SILT** : MH, black (10YR 2/1), nonplastic, no dilatency, low toughness, moist, soft, 5% root.	MH								
			1.0										
			1.5	1 - 2' **LEAN CLAY** : CL, very dark brown (10YR 2/2), medium plasticity, no dilatency, medium toughness, wet, firm.	CL								
			2.0										
			2.5	2 - 3' **FAT CLAY** : CH, dark gray (2.5Y 4/1), high plasticity, no dilatency, high toughness, wet, firm.	CH								
			3.0										
				3' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-S10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,693 N, 2,468,338 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			1.0	1 - 2' **ELASTIC SILT** : MH, very dark gray (7.5YR 3/1), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/shells/fine sand, earthy odor.	MH			0.5					
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-S20

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	817.1 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,678 N, 2,468,336 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram		Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **SILT** : ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.3 ft, trace roots/fibers/medium sand, earthy odor.	ML									
			1.0											
			1.5											
			2.0	2' End of Boring.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-299+90-S50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,648 N, 2,468,331 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, dry to moist, very soft, trace roots/fibers; fine granular soil texture.	MH			0.5					
			1.0										
			1.5	1.5 - 2' **LEAN CLAY** : CL, olive brown (2.5Y 4/3), medium plasticity, no dilatency, medium toughness, moist, very soft, homogenous.	CL			0.5					
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+00-N10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,685 N, 2,468,232 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5 2.0	0 - 2.25' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, slow dilatency, low toughness, dry to moist, very soft, root material to 0.2 ft, trace roots/fibers/medium sand, earthy odor.	ML								
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+00-N30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.6 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,710 N, 2,468,232 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5 2.0 2.5	0 - 2.5' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
				2.5' End of Boring.									

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Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+00-N60

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,740 N, 2,468,236 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers.	MH								
			1.0										
			1.5	1.5 - 2' **LEAN CLAY** : CL, gray (10YR 5/1), 5% yellowish brown (10YR 5/6) mottling, medium plasticity, no dilatency, medium toughness, moist, very soft.	CL			0.5					
			2.0	2' End of Boring.									

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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+00-N80

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,760 N, 2,468,238 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **ELASTIC SILT** : MH, black (7.5YR 2.5/1), nonplastic, no dilatency, moist, very soft, 10% roots/fibers to 0.5'.									
			1.0	1' trace roots/fibers 1'-2'.	MH								
			1.5										
			2.0	2 - 3' **FAT CLAY** : CH, light olive brown (2.5Y 5/3), high plasticity, no dilatency, high toughness, moist, firm.	CH								
			2.5										
			3.0	3' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+00-S100

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.3 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,551 N, 2,468,237 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT :** ML, dark brown (7.5YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			1.0	1 - 2.25' **LEAN CLAY :** CL, very dark grayish brown (10YR 3/1), medium plasticity, no dilatency, medium toughness, moist, very soft, trace fibers/roots/medium sand.	CL			0.5					
			1.5										
			2.0	2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Hovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-301+40-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,735 N, 2,468,195 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **ELASTIC SILT** : MH, black (7.5YR 2.5/1), nonplastic, no dilatency, moist, very soft, trace roots to 1'.									
			1.0	1' trace wood pieces 1'-2'.	MH								
			1.5										
			2.0	2 - 3' **FAT CLAY** : CH, olive gray (5Y 4/2), high plasticity, no dilatency, high toughness, moist, firm.									
			2.5		CH								
			3.0	3' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-302+20-S10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,686 N, 2,468,122 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	0 - 0.5' **SILT** : ML, dark brown (7.5YR 3/2), slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			0.5	0.5 - 2.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/medium sand, shells, earthy odor.				0.5					
			1.0										
			1.5		MH								
			2.0										
			2.5	2.5' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-302+20-S30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,661 N, 2,468,129 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram		Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5 1.0 1.5 2.0	0 - 2' **SILT** : ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor. 2' End of Boring.	ML									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
Eric P. Kovatch	Natural Resource Technology, Inc. 23713 W Paul Road, Suite D Pewaukee, WI. 53072	Tel: (262) 523-9000 Fax: (262) 523-9001

Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-302+20-S70

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.4 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,635 N, 2,468,148 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram		Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **SILT** : ML, very dark grayish brown (10YR 3/1), low plasticity, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML									
			1.0											
			1.5											
			2.0	2' End of Boring.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-302+20-S185

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,530 N, 2,468,195 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 1' **SILT** : ML, very dark grayish brown (10YR 3/2), low plasticity, rapid dilatency, low toughness, dry, very soft, trace roots/fibers/medium sand.	ML								
			1.0	1 - 1.5' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/stems.	MH			0.5					
			1.5	1.5 - 2' **LEAN CLAY** : CL, dark grayish brown (10YR 4/2), medium plasticity, no dilatency, medium toughness, moist, very soft, trace fine sand.	CL			0.5					
			2.0	2' End of Boring.									

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+10-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,707 N, 2,468,086 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 4' **ELASTIC SILT :** MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, no shells.	MH								
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										
			3.5										
			4.0	4' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+10-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,707 N, 2,468,086 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 4' **ELASTIC SILT :** MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, no shells.	MH								
			1.0										
			1.5										
			2.0										
			2.5										
			3.0										
			3.5										
			4.0	4' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+30-N10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,665 N, 2,468,064 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 0.5' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML			0.5					
			1.0 1.5 2.0	0.5 - 2.25' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/shells/stems, earthy odor.	MH								
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+30-N25

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.7 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,681 N, 2,468,067 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, slow dilatency, low toughness, moist, very soft, root material to 0.2 ft, trace roots/fibers, earthy odor.	ML								
			1.0										
			1.5										
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+30-N50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	9/19/2005	9/19/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	816.8 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,720 N, 2,468,075 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 2.25' **SILT** : ML, very dark grayish brown (10YR 3/2), nonplastic, slow dilatency, low toughness, moist, very soft, root material to 0.3 ft, trace roots/fibers/medium sand, earthy odor.	ML								
			1.0										
			1.5										
			2.0	2.1' **ELASTIC SILT** : MH, very dark grayish brown (10YR 3/1), medium plasticity, no dilatency, low toughness, moist, very soft, trace roots/fibers/shells/medium sand, earthy odor.	MH								
				2.25' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+30-N70

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	10/3/2005	10/3/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,739 N, 2,468,081 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	0 - 2' **ELASTIC SILT :** MH, very dark grayish brown (10YR 3/2), medium plasticity, no dilatency, low toughness, moist, very soft, 5% root/fibers.				0.5					
			0.5	0.5' trace roots/fibers.									
			1.0		MH								
			1.5										
				1.75' 2 long piece of wood.									
			2.0	2' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Form 4400-122 Rev. 7-98

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Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+30-N90

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,758 N, 2,468,087 E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 3' **ELASTIC SILT :** MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, no shells.	MH								
			1.0										
			1.5										
			2.0										
			2.5										
			3.0	3' End of Boring.									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
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Form 4400-122 Rev. 7-98

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Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
HARP OU2/L & OU3		RM-303+50-N40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Randy Barnhill Natural Resource Technology, Inc.	11/14/2005	11/14/2005	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet (NAVD)	0.0 Feet (NAVD)	inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 735,718 N, 2,468,049 E S / C / N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Calumet	8	Chilton

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0.5	0 - 3' **ELASTIC SILT :** MH, very dark brown (10YR 2/2), nonplastic, no dilatency, low toughness, moist, soft, trace roots/fibers.									
			1.0										
			1.5		MH								
			2.0	2' wet; trace shells 2'-3'.									
			2.5										
			3.0	3 - 4.5' **FAT CLAY :** CH, grayish brown (2.5Y 5/2), high plasticity, no dilatency, high toughness, moist, firm, Note: clay also under 303+30-N90, 303+10-N40.									
			3.5		CH								
			4.0										
			4.5	4.5' End of Boring.									

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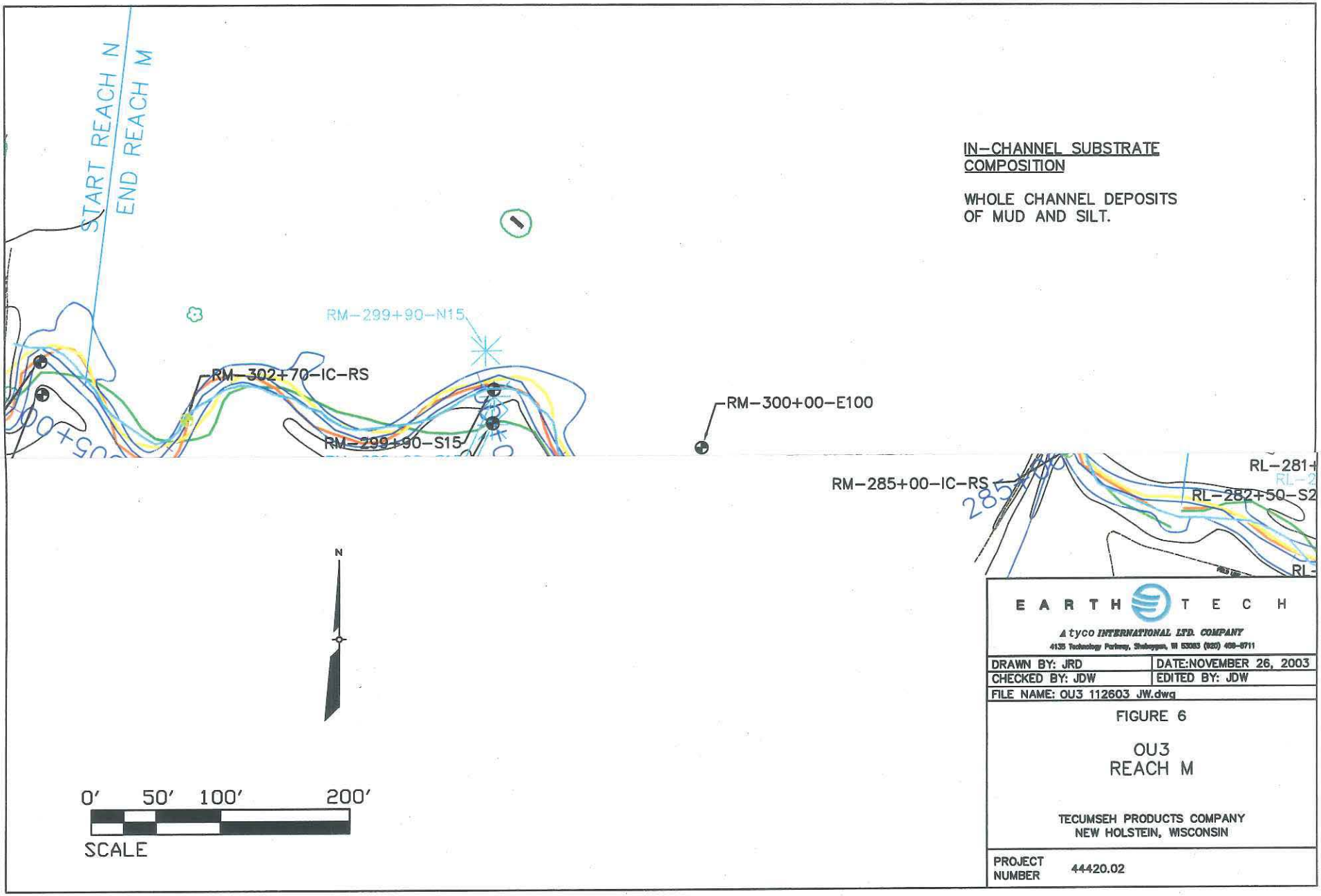
Date Modified: 1/6/2006 Template: WDNR SBL 1998 - Project: 1778_HARPOU2_3.GPJ



EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

4135 Technology Parkway, Sheboygan, WI 53083 (920) 406-8711

DRAWN BY: JRD	DATE:NOVEMBER 26, 2003
CHECKED BY: JDW	EDITED BY: JDW
FILE NAME: OU3 112603 JW.dwg	

FIGURE 6

OU3
REACH M

TECUMSEH PRODUCTS COMPANY
NEW HOLSTEIN, WISCONSIN

PROJECT NUMBER 44420.02

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-289+00-W10

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 28 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Purpose of this core is to define the soil type on both sides of the stream for a majority of Reach M

Depth (inches)	Soil Horizon	Description
0-5	A	10YR 2/1 black, silt loam, ML, dry, friable, 10% roots, no mottles, fine granular structure
5-20	A2	10YR 2/1 black, silty clay loam, CL, damp, friable, 2% roots, 5% 5YR 3/3 dark reddish brown mottles, fine granular structure, clay skins on ped faces
20-37	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 10% roots, 15% 5YR 3/4 dark reddish brown mottles, fine granular structure, no clay skins, few coarse sand and pebbles, buried A horizon
37-	2B	10YR 3/2 very dark grayish brown, silty clay loam, CL, wet, friable, trace roots, 5% 10YR 4/4 dark yellowish brown mottles, medium subangular blocky structure, no clay skins
		End of core at 58 inches in 2B horizon

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-293+30-S10

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 31 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Determine deposition between channel and circular depression on the inside of a meander bend.

Depth (inches)	Soil Horizon	Description
0-11	A	10YR2/1 black, silt loam, ML, damp, friable, 10% roots, no mottles, fine subangular blocky structure
11-20	A2	10YR 2/1 black, silt clay loam, CL, moist, friable, 5% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structures, clay skins on ped faces
20-24	A3	10YR 2/1 black, silt loam, ML, moist, friable, 5% roots, no mottles, fine granular structure, few coarse sand, shell fragments
24-26	C	10YR 5/3 brown, fine sand, well sorted, SP, wet, loose, no roots, no mottles, water deposited
26-42	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 5% 5YR3/4 dark reddish brown mottles, medium granular structure, trace shell fragment
42-	2C	10YR 4/2 dark grayish brown, clay loam, CL, damp, firm, trace roots, 10% 10B 6/1 bluish gray mottles, medium angular blocky structure
		End of core at 49 inches in 2C horizon

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-293+30-S30

Geomorphic Setting: Depression on Intermediate terrace

Water Level in Sample Tube Hole: 11 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Closed depression on intermediate terrace

Depth (inches)	Soil Horizon	Description
0-8	A	10YR 2/1 black, silt loam, ML, damp, friable, 10% roots, no mottles, fine granular structure
8-17	A2	10YR 2/1 black, silt loam, ML, damp, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, clay skins on ped faces, shell fragments
17-31	A3	10YR 2/1 black, silt loam, ML, moist, friable, 1% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, common coarse sand
31-	C	10YR 4/1 dark gray, silty clay loam, CL, moist, friable, no roots, 5% 10GY 6/1 greenish gray mottles, medium subangular blocky structure
		End of core at 35 inches in C horizon

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-N15

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 16 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Representative location of North and East side of channel in Reach M

Depth (inches)	Soil Horizon	Description
0-10	A	10YR 2/1 black silt loam, ML, damp, friable, 10% roots, no mottles, fine granular structure
10-19	A2	10YR 2/1 black, silty clay loam, CL, damp, friable, 5% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, clay skins on ped faces
19-43	2Ab	10YR 2/1 black, silt loam, ML, moist, friable, 10% roots, no mottles, fine granular structure, few coarse sand and shell fragments
43-	2C	10YR 5/1 gray, silty clay loam, CL, wet, friable, no roots, 5% 10YR 4/4 dark yellowish brown mottles, medium subangular blocky structure
		End of core at 50 inches in 2C horizon

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-S15

Geomorphic Setting: Low terrace Potential former channel in 1951 from Aerial Photo Review

Water Level in Sample Tube Hole: 16 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Potential location of 1951 channel. Depth of A3 and 2Ab horizons suggest fill since 1951 although this location was off channel, not part of the channel

Depth (inches)	Soil Horizon	Description
0-10	A	10YR 2/1 black, silt loam, ML, damp, friable, 5% roots, no mottles, fine granular structure
10-14	A2	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure
14-42	A3	10YR 2/1 black, silt loam, ML, damp, friable, trace roots, no mottles, medium subangular blocky structures, non-natural black color mixed with 10YR 2/1 black, shell fragments
42-51	2Ab	10YR 3/2 very dark grayish brown, silt loam, ML, wet, friable, 10% roots, no mottles, medium subangular blocky structure, common coarse sand and shell fragments
51-	2C	10YR 4/1 dark gray, clay loam, CL, damp, firm, trace roots, no mottles, medium subangular blocky structure, trace shell fragments
		End of core at 57 inches in 2C horizon

Site Name: Pine Creek Waterway
Soil Characterization Study, New Holstein, Wisconsin

Sample Location: RM-299+90-S25

Geomorphic Setting: Intermediate terrace

Water Level in Sample Tube Hole: 13 inches below ground surface

Described By: David Richardson

Date Described: October 2, 2003

Soil Sample Collected:

Remarks: Defines upland side of potential former channel at RM-299+90-S15.

Depth (inches)	Soil Horizon	Description
0-11	A	10YR 2/1 black, silt loam, ML, damp, friable, 5% roots, no mottles, fine granular structure
11-27	A2	10 YR 2/2 very dark brown, silty clay loam, CL, damp, friable, 2% roots, 10% 5YR 3/4 dark reddish brown mottles, fine granular structure, trace shell fragments
27-40	A3	10YR 2/1 black, silt loam, ML, moist, friable, 2% roots, 20% 5YR 3/4 dark reddish brown mottles, fine granular structure, few coarse sand
40-58	2Ab	10YR 4/1 dark gray, silt loam, ML, wet, friable, 15% roots, no mottles, medium subangular blocky structure, potential former muck soil
58-	2C	10YR 5/1 gray, silty clay loam, CL, wet, firm, no roots, no mottles, coarse subangular blocky structure
		End of core at 60 inches in 2C horizon


TRC

230 West Monroe Street
Suite 2370
Chicago, IL 60606

312.578.0870 PHONE
312.578.0877 FAX

www.TRCsolutions.com

MAY 25 2011

May 25, 2011

Mr. Jim Baumann
Special Assistant to Bureau Director
Bureau of Watershed Management
Wisconsin Department of Natural Resources
101 S. Webster Street, Box 7921
Madison, WI 53707-7921

Ms. Jean Greensley
U.S. Environmental Protection Agency
Remediation and Reuse Branch
Land and Chemicals Division
77 W. Jackson Boulevard
Chicago, IL 60604-3511

Re: Proposed Overbank Removal Boundaries and PRV Sample Locations
Operable Unit 3, Reach I
Hayton Area Remediation Project

Dear Mr. Baumann and Ms. Greensley:

Enclosed for your approval are figures and tables showing revised overbank removal boundaries in Reach I of the Hayton Area Remediation Project, Operable Unit 3 (OU3). Eletronic copies of this submittal are also being provided via email to James.Baumann@Wisconsin.gov and Greensley.Jean@epamail.epa.gov.

Figures 1 and 2 show sample results and revised removal boundaries in Reach I. The removal boundaries were determined using the results of additional characterization samples collected in 2011. Table 1 lists all of the Reach I characterization samples analyzed in 2011. Table 2 provides the rationale for the boundaries of each removal zone of Reach I.

Also enclosed for your approval is a list of proposed post-remedial verification samples (PRV) in Reach I. The PRV samples are listed on Table 3, and their locations are shown on Figure 3.

For your reference, I have also enclosed a copy of the Reach I historic sample results presented in the 2006 *Lower OU2 & OU3 Technical Memorandum.*

TRC requests your review and approval of Reach I separately from Reach J, which may allow us to begin work in Reach I at an earlier date. We would appreciate your comments and approval for Reach I by Wednesday, June 1, 2011.

Please contact me at (312) 578-0870, extension 8486, with any questions.

Sincerely,
TRC

Christopher D. Harvey, PE
Program Manager

Enclosures: *Figure 1 - Sample Results and Excavation Boundaries, Reach I (East Bank)*
Figure 2 - Sample Results and Excavation Boundaries, Reach I (West Bank)
Figure 3 - Proposed Post-Remedial Verification Sampes, Reach I
Table 1- Characterization Sampling Results 2011, Reach I
Table 2 - Rationale for Removal Boundaries, Reach I
Table 3 - Proposed Post-Remedial Verification Samples, Reach I
Figure - Reach I (from Lower OU2 & OU3 Technical Memorandum, 2006)

Table 1. Proposed Stream Bank PRV Samples - Reach I
Hayton Area Remediation Project

07/07/2011

PRV Sample Name or Removal Zone	Length of Streambank Represented		Description
	Upstream Station	Downstream Station	
Right Bank			
I1 PRVW-1A	217+70	219+30	Inner meander along I201 1IR
I203	219+30	219+80	18" removal 4IR
I1 PRVW-4A	219+80	221+00	Outer meander along I205d ~~2IR~~ 2IR ?
I205c	221+00	222+30	18" removal
I206	222+30	223+30	24" removal & poly & 7IR
I206a	223+30	224+85	18" removal
I2 PRVW-3A	224+85	225+65	Outer meander along I107, I207d, I211b and I208 10IR
I2 PRVW-5A	225+65	226+70	Inner meander along I208 and I209 - 11 IR
I2 PRVW-6A	226+70	228+50	Straight section along I209a, I210 and I213 - 13IRb
I3 PRVW-1A	228+50	229+70	Straight section along I213 and I215b 17IR
I215a	229+70	230+18	18" removal
I3 PRVW-3A	230+18	230+90	Inner meander along I215 16IRb, 17IR
I3 PRVW-7A	230+90	232+00	Outer meander along I215 and I214 18IRb, 19IRa
Left Bank			
I1 PRVW-2A	217+70	219+85	Outer meander along I101 and I103a 1ILA
I103	219+85	221+00	24" removal 2IL
I104	221+00	221+30	24" removal 3IL
I105	221+30	222+10	21" removal
I1 PRVW-6A	222+10	223+40	Outer meander along I105a, I105c, I106a and I106b 5IL
I107b	223+40	223+60	24" removal
I107	223+60	224+15	24" removal
I2 PRVW-2A	224+15	225+75	Inner meander along I107a and I108 10IL
I2 PRVW-4A	225+75	226+70	Outer meander along I108 and I106 11IL & 14IL
I2 PRVW-7A	226+70	228+50	Straight section along I106 13IL
I3 PRVW-2A	228+50	229+40	Straight section along I106 and I106e 16IL, 17IL
I106d	229+40	229+90	18" removal
I106g	229+90	230+20	18" removal
I106h	230+20	230+40	18" removal
I3 PRVW-4A	230+40	230+90	Outer meander along I106i and I111 19IL
I3 PRVW-6A	230+90	232+00	Inner meander along I111 and I110 22IL

I

Table 1. Characterization Sampling Results 2011
Reach I
Hayton Area Remediation Project

5/25/2011

Sample Name	Total PCBs (mg/kg)
I105 VB-1C 0-6"	4.63
I105 VW-2C 6-12"	2.53
I106 VB-1D 6-12"	17.5
I106 VB-1E 6-12"	12.6
I106 VB-7C 0-6"	7.34
I106 VB-7R 12-18"	0.494
DUP 89	0.165
I106 VB-7R 6-12"	5.48
I106 VB-7S 6-12"	4.6
I106 VW-3D 0-6"	6.3
I106 VW-3E 0-6"	3.35
I106 VW-4D 0-6"	16.2
I106 VW-4E 0-6"	1.98
I106 VW-4F 0-6"	11.8
I106 VW-7D 18-24"	1.4
DUP 80	1.35
I106 VW-7E 6-12"	53.6
I106 VW-7F 6-12"	14.5
I106 VW-7G 6-12"	21.6
I106 VW-7H 12-18"	16.8
I106 VW-7H 6-12"	19.9
I106 VW-7I 6-12"	11.9
I106 VW-7J 6-12"	24.4
I106 VW-7K 6-12"	31.8
I106 VW-7L 12-18"	4.66
I106 VW-7L 6-12"	38.2
I106 VW-7M 12-18"	2.86
I106 VW-7N 6-12"	1.46
I106 VW-7P 6-12"	4.71
I204 VB-3H 0-6"	21.7
I204 VB-3I 0-6"	12.8
I204 VB-3J 0-6"	29
I204 VB-6B 0-6"	5.73
I204 VB-6C 0-6"	8.39
I204 VB-6D 12-18"	1.16
I204 VB-6D 6-12"	23.7

Sample Name	Total PCBs (mg/kg)
I204 VF-6B 18-24"	3.74
I204 VW-2A 6-12"	1.34
I204 VW-4B 0-6"	5.58
I204 VW-4C 0-6"	0.952
I204 VW-8B 0-6"	11
I204 VW-8C 0-6"	6.58
I204 VW-8D 0-6"	2.56
I205 VB-1A 6-12"	17.3
I205 VB-3B 6-12"	2.38
DUP 83	2.34
I205 VB-3C 6-12"	0.76
I205 VB-3G 0-6"	23.4
DUPLICATE 78	23.1
I205 VW-2B 12-18"	1.38
I205 VW-2B 6-12"	32.6
I207 VB-1A 6-12"	12.7
I207 VB-1E 6-12"	0.378
I207 VB-1G 6-12"	14.6
I207 VB-1H 6-12"	0.462
I207 VB-1K 0-6"	12.6
I207 VB-1L 0-6"	41.1
I207 VB-1L 6-12"	6.67
I207 VB-1M 0-6"	12.7
I207 VB-1N 0-6"	8.88
I207 VF-1G 12-18"	0.103
I207 VW-1C 12-18"	0.0656
I207 VW-1M 6-12"	1.5
I207 VW-1P 0-6"	7.84
I207 VW-1P 0-6"	4.0
I207 VW-1R 0-6"	3.81
I207 VW-2G 0-6"	7.1
I207 VW-2H 0-6"	5.88
I207 VW-2J 0-6"	1.56
I207 VW-3E 6-12"	1.77
I207 VW-3G 0-6"	6.81
I207 VW-3H 0-6"	11.2

revision

Table 1. Characterization Sampling Results 2011
Reach I
Hayton Area Remediation Project

5/25/2011

Sample Name	Total PCBs (mg/kg)
I207 VW-3J 0-6"	4.16
I207 VW-4F 0-6"	8.46
I207 VW-4G 0-6"	1.15
I207 VW-5F 0-6"	4.26
I209 VB-1B 0-6"	9.03
I209 VB-1B 12-18"	3.48
I209 VB-1C 0-6"	3.63
I209 VB-1C 12-18"	3.43
I209 VB-1D 6-12"	12.8
I209 VB-1E 6-12"	37
I209 VB-1F 6-12"	57.4
I209 VB-1G 6-12"	12.7
I211 VB-2A 6-12"	8.97
I211 VB-2B 6-12"	9.04
I211 VB-3A 0-6"	16
I211 VB-3A 6-12"	9.01
I211 VB-3B 6-12"	2.66
I211 VB-4A 0-6"	9.58
I211 VB-4A 6-12"	22
I211 VB-5A 0-6"	19.6
I211 VW-2C 6-12"	0.457
I211 VW-2D 6-12"	0.275
I215 VB-1B 0-6"	25.4
I215 VB-1B 12-18"	0.0641
I215 VB-1E 0-6"	16.8
I215 VB-1F 12-18"	0.0904
I215 VB-2A 12-18"	15.6
DUP 90	17.1
I215 VB-2A 6-12"	146
I215 VB-2B 12-18"	1.63
I215 VB-2B 6-12"	93.8
I215 VB-2C 6-12"	0.536
I215 VB-3A 6-12"	3.59
I215 VB-4A 6-12"	3.85
DUPLICATE 79	3.4
I215 VF-2A 18-24"	0.0397
I215 VW-1E 12-18"	1.98

Table 2. Rationale for Removal Boundaries
Reach I
Hayton Area Remediation Project

rev 1/3/2011

05/25/2011

Removal Zone ID	Rationale
I101	• Upland boundary established using a location between RI-218+50-S10 0-6" = 13 mg/kg and RI-218+50-S40 0-6" = 4.6 mg/kg. • Floor established using sample RI-218+50-S10 6-12" = 0.360 mg/kg. • Downstream boundary established using the polygon line dividing 2IL from 1ILa, with reference to sample RI-218+50-S10 6-12" = 0.360 mg/kg.
I102	• Upland boundary established using sample I102 VW-1A 0-6" = 1.2 mg/kg. • Lateral boundaries and boundary towards the creek are established using the polygon line between 1ILa and 1ILb with reference to sample RI-218+50-S40 0-6" = 4.6 mg/kg. • Floor established using sample RI-218+50-S60 6-12" = <0.04 mg/kg.
I103	• Upstream boundary established using sample I103 VW-1B 6-12" = 0.44 mg/kg • Upland boundary established using the polygon line between 4IL and 2IL with reference to sample RI-221+60-S25 • Floor established using sample RI-221+00-S10 24-33" = <0.037 mg/kg.
I103a	• Upstream boundary established using the polygon line dividing 2IL from 1ILa, with reference to sample RI-218+50-S10 6-12" = 0.360 mg/kg. • Upland boundary established using the polygon line between 4IL, 1ILa and 2IL with reference to samples RI-221+60-S25 and RI 218+50-S40. • Floor established by sample I103 VW-1C 12-18" = <0.16 mg/kg
I104	• Upland boundary established using the polygon line between 4IL and 2IL with reference to sample RI-221+60-S25 • Floor established by sample RI-221+00-S10 24-33 = <0.037 mg/kg. • Downstream boundary established by the polygon line between 3IL and 2IL, with reference to sample RI-221+60-S10 21-27" = <0.034 mg/kg.
I105	• Upstream boundary established by the polygon line between 3IL and 2IL, with reference to sample RI-221+60-S10 21-27" = <0.034 mg/kg. • Upland boundary established by the polygon line between 3IL and 4IL, with reference to sample RI-221+60-S25. • Downstream boundary established by sample I105 VW-1A 12-18" = 0.38 mg/kg. • Floor established by sample RI-221+60-S10 21-27" = <0.034 mg/kg.
I105a	• Upstream boundary established by sample I105 VW-1A 12-18" = 0.38 mg/kg. • Upland boundary established by the upland polygon line boundary of 5IL, and sample I105 VW-1B 6-12" = 0.29 mg/kg. • Floor established by sample I105 VW-2A 12-18" = <0.22 mg/kg. • Downstream boundary established by I105 VW-2C 6-12" = 2.53 mg/kg.
I105b	• Upstream boundary is established by the upstream polygon line boundary of 5IL. • Boundary towards the creek and the floor of removal are established by sample I105 VW-1B 6-12" = 0.29 mg/kg. • Upland boundary is established by I105 VW-1D 0-6" = 1.5 mg/kg. • Downstream boundary is established by the downstream polygon line boundary of 5IL.

Table 2. Rationale for Removal Boundaries
Reach I
Hayton Area Remediation Project

05/25/2011

Removal Zone ID	Rationale
I105c	• Upstream boundary established by I105 VW-2C 6-12" = 2.53 mg/kg. • Upland boundary established by the polygon line between 5IL and 8IL, with reference to sample RI-226+00-S100. • Floor established by sample I106 VF-8A 6-12" = 0.89 mg/kg. • Downstream boundary established by the polygon line between 5IL and 9IL, with reference to sample I106 VF-8A 6-12" = 0.89 mg/kg.
I106	• Upland boundary established by the polygon line between 12ILb and 8IL, with reference to sample RI-226+00-S100 0-6" = 1.4 mg/kg; sample I106 VW-4E 0-6" = 1.98 mg/kg; sample I106 VW-3E 0-6" 3.35 mg/kg; the polygon line between 16IL, 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg; • Internal boundaries with I107 and I107a established by the polygon line between 12ILb and 9IL, with reference to sample RI-224+00-W40 6-12" = 0.26 mg/kg. • Internal boundary with I108 established by the polygon line between 10IL and 11IL, with reference to sample RI-225+90-S20 6-12" = 0.56 mg/kg. • Internal boundary with I109 established by the polygon line between 14IL, 15IL, 16IL and 17IL, with reference to sampes RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg. • Downstream boundary established by sample RI-229+10-S40 6-12" = 4.1 mg/kg. • Floor established by samples RI-224+00-W40 6-12" = 0.26 mg/kg; RI-225+90-S50 6-12" = 0.49 mg/kg; RI-225+90-S20 6-12" = 0.56 mg/kg; RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg.
I106a	• Upstream boundary established by the polygon line between 5IL and 9IL, with reference to sample I106 VF-8A 6-12" = 0.89 mg/kg. • Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100. • Floor established by sample I106 VW-1A 12-18" = 0.37 mg/kg. • Downstream TSCA boundary established by sample I106 VB-1D 6-12" = 17.5 mg/kg.
I106b	• Upstream TSCA boundary established by sample I106 VB-1D 6-12" = 17.5 mg/kg • Downstream TSCA boundary established by sample I106 VW-1A 6-12" = 18 mg/kg. • Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100. • Floor established by sample I106 VW-1A 12-18" = 0.37 mg/kg.

Table 2. Rationale for Removal Boundaries
Reach I
Hayton Area Remediation Project

05/25/2011

Removal Zone ID	Rationale
I106c	• Upstream boundary established by sample I106 VB-7S 6-12" = 4.6 mg/kg. • Internal boundary with I111 established by the polygon line between 23IL and 25IL, with reference to sample I106 VW-7P 6-12" = 4.71 mg/kg; and by the polygon line boundary between 26IL and 24IL, with reference to sample RI-231+30-S80 6-12" = 0.13 mg/kg. • Internal boundaries with I106i and I106h are established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg. • Upland boundary defined by the polygon line between 25IL and 21IL, and between 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg. • Floor established by sample I106 VW-7P 6-12" = 4.71 mg/kg; and I106 VW-7N 6-12" = 1.46 mg/kg.
I106d	• Upstream boundary established by sample I106 VB-7C 12-18" 0.96 mg/kg. • Upland boundary established by sample I106 VB-7B 12-18" = 0.96 mg/kg. • Downstream boundary established by sample I106 VW-7M 12-18" = 2.86 mg/kg. • Floor established by samples I106 VB-7A 18-24" = 1.6 mg/kg; and sample I106 VB-7B 18-24" = 0.2 mg/kg.
I106e	• Upstream TSCA boundary with I109 and I106f established by sample I106 VW-7I 6-12" = 11.9 mg/kg. • Upland TSCA boundary with I106f established by samples I106 VW-7I 6-12" = 11.9 mg/kg; I106 VW-7F 6-12" = 14.5 mg/kg; I106 VW-7G 6-12" = 21.6 mg/kg; and I106 VB-7R 6-12" = 5.48 mg/kg. • Downstream TSCA boundary with I106g established by sample I106 VB-7S 12-18" = 0.494 mg/kg. • Floor established by samples I106 VB-7B 12-18" = 0.96 mg/kg and I106 VB-7C 12-18" = 0.96 mg/kg.
I106f	• Upland boundary established by the polygon line between 19IL and 20IL, with reference to sample RI-229+10-S75 0-6" = 1.5 mg/kg. • Upstream boundary with I106 established by sample RI-229+10-S40 6-12" = 4.1 mg/kg. • Downstream boundary established by sample I106 VB-7S 6-12" = 4.6 mg/kg. • Floor established by samples I106 VB-7B 12-18" = 0.96 mg/kg; I106 VB-7R 12-18" = 0.494 mg/kg; and I106 VB-7C 12-18" = 0.96 mg/kg.
I106g	• Upstream boundary established by sample I106 VW-7M 12-18" = 2.86 mg/kg. • Upland TSCA boundary established by samples I106 VB-7R 6-12" = 5.48 mg/kg. • Upland non-TSCA boundary established by I106 VB-7R 12-18" = 0.494 mg/kg. • Downstream TSCA boundary established by samples I106 VW-7H 6-12" = 19.9 mg/kg and I106 VW-7H 12-18" = 16.8 mg/kg • Floor established by sample I106 VW-7D 18-24" = 1.4 mg/kg.

Table 2. Rationale for Removal Boundaries
Reach I
Hayton Area Remediation Project

05/25/2011

Removal Zone ID	Rationale
I106h	• Upstream TSCA boundary established by samples I106 VW-7H 6-12" = 19.9 mg/kg and I106 VW-7H 12-18" = 16.8 mg/kg. • Downstream boundary established by I106 VW-7L 12-18" = 4.66 mg/kg. • Upland boundary with I106c established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg. • Floor established by sample I106 VW-7D 18-24" = 1.4 mg/kg.
I106i	• Upstream boundary and floor established by sample I106 VW-7L 12-18" = 4.66 mg/kg. • Upland boundary with I106c established by samples I106 VB-7S 6-12" = 4.6 mg/kg and I106 VW-7P 6-12" = 4.71 mg/kg.
I107	• Upstream TSCA boundary established by sample I107 VB-1A 0-6" = 30 mg/kg. • Upland boundary established by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40. • Downstream boundary established by sample I107 VW-2B 12-18" = 0.41 mg/kg. • Floor established by sample RI-224+00-W10 24-36" = 0.21 mg/kg.
I107a	• Upstream boundary established by sample I107 VW-2B 12-18" = 0.41 mg/kg • Upland boundary established by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40. • Floor established by samples I107 VB-2C 12-18" = 1.5 mg/kg; and I107 VW-2B 12-18" = 0.41 mg/kg. • Downstream TSCA boundary established by sample I106 VB-6C 0-6" = 20 mg/kg.
I107b	• Upstream TSCA boundary established by sample I106 VW-1A 6-12" = 18 mg/kg. • Upstream non-TSCA boundary established by sample I106 VW-1A 12-18" = 0.37 mg/kg. • Upland boundary established by the polygon line between 9IL and 8IL, with reference to sample RI-226+00-S100; and by the polygon line between 9IL and 12ILb, with reference to sample RI-224+00-W40. • Floor established by sample RI-224+00-W10 24-36" = 0.21 mg/kg. • Downstream TSCA boundary established by sample I107 VB-1A 0-6" = 30 mg/kg.
I108	• Upstream TSCA boundary established by sample I106 VB-6C 0-6" = 20 mg/kg. • Upland and downstream boundaries established by the polygon line between 10IL and 11IL, with reference to sample RI-225+90-S20 6-12" = 0.56 mg/kg. • Floor established by sample RI-225+90-S5 12-21" = 2.5 mg/kg.
I109	• Upstream boundary established by the polygon line between 17IL and 14IL and 15IL, with reference to samples RI-227+50-S10 6-12" = 1.5 mg/kg; and RI-227+50-S40 6-12" = 0.83 mg/kg. • Upland boundary established by the polygon line between 17IL and 16IL. • Downstream TSCA boundary established by sample I106 VW-7I 6-12" = 11.9 mg/kg. • Floor established by sample RI-229+10-S10 12-21" = 1.6 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I110	• Upstream TSCA boundary established by RI-231+30-S10 0-6" = 16 mg/kg. • Upland TSCA boundary established by sample I110 VB-1A 0-6" = 38 mg/kg; and by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg. • Downstream TSCA boundary established by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg. • Floor established by samples RI-231+30-S10 12-27" = 0.34 mg/kg; and RI-231+30-S25 12-21" = 0.18 mg/kg.
I111	• Internal TSCA boundary with I110 established by sample I110 VB-1A 0-6" = 38 mg/kg; and by the polygon line boundary between 23IL and 26IL, with reference to sample RI-231+30-S50 0-6" = 47 mg/kg. • Upland boundary established by the polygon line boundary between 26IL and 24IL, with reference to sample RI-231+30-S80 6-12" = 0.13 mg/kg; and between 23IL and 25IL, with reference to sample I106 VW-7P 6-12" = 4.71 mg/kg. • Downstream boundary established by the polygon line boundary between 26IL and 1JL, with reference to sample RJ-233+00-S20 6-12" = 2 mg/kg. • Floor established by RI-231+30-S50 12-20" = 3.2 mg/kg; and RI-231+30-S25 12-21" = 0.18 mg/kg.
I201	• Upstream boundary with H202 established by the polygon between 14HR and 2IR, with reference to sample RH-216+80-N10 6-12" = 4.2 mg/kg. • Floor established by sample RI-218+50-N10 12-18" = 2.6 mg/kg.
I202	• Upland boundary with H204a, H204b and H204c established by samples H204 VB-3A 0-6" = 48 mg/kg; RI-219+50-E60 0-6" = 6.8 mg/kg; and RI-219+50-E60 6-12" = 0.54 mg/kg. • Floor established by samples RI-218+50-N10 12-18" = 2.6 mg/kg; I202 VF-2B 12-18" = 4.2 mg/kg; and RI-219+50-E30 6-18" = 1.9 mg/kg. • Downstream boundary established by the polygon line between 1IR and 4IR, and by sample RI-219+50-E30 6-18" = 1.9 mg/kg.
I203	• Lateral boundaries established by the polygon line between 4IR and 1IR, with reference to sample RI-219+50-E30 6-18" = 1.9 mg/kg. • Floor established by sample RI-219+50-E10 18-27" = <0.043 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I204	• Upland boundary defined by samples H201 VW-1D 0-6" = 4.7; H201 VW-5C 0-6" = 1.8 mg/kg; I204 VW-1G 0-6" = 3.8 mg/kg; I204 VW-4C 0-6" = 0.952 mg/kg; and I204 VW-8D 0-6" = 2.56. • Upstream boundary established by the polygon line between 4IR and 1IR, and sample RI-219+50-E30 6-18" = 1.9 mg/kg. • Boundary with I205d and I205c established by sample RI-220+80-N10 6-12" = 1.8 mg/kg. • TSCA boundary with I205 established by samples I204 VB-3I 0-6" = 12.8 mg/kg; I204 VB-3G 0-6" = 23.4 mg/kg; I204 VB-3H 0-6" = 21.7 mg/kg. • Boundary with I206b established with the polygon line between 7IR and 10IR. • Boundary with I206a established by the polygon line between 7IR and 10IR.
I205	• Southern boundary with I205a established by the polygon line between 8IRb and 9IR, and sample I205 VB-3B 6-12" = 2.38 mg/kg. • Upland boundary established by samples I204 VB-3I 0-6" = 12.8 mg/kg; I204 VB-3G 0-6" = 23.4 mg/kg; I204 VB-3H 0-6" = 21.7 mg/kg. • Floor established by sample I205 VB-3B 6-12" = 2.38 mg/kg. • West TSCA boundary established by the polygon line between 7IR and 9IR, with reference to sample I204 VB-3J 0-6" = 29 mg/kg.
I205a	• Upland TSCA boundary with I206b established by the polygon line between 7IR and 8IRb, and sample I204 VB-3J 0-6" = 29 mg/kg. • Upland boundary with I205 established by the polygon line between 8IRb and 9IR, and sample I205 VB-3B 6-12" = 2.38 mg/kg. • Eastern TSCA boundary with I205b established by sample I205 VB-1A 6-12" = 17.3 mg/kg; and I205 VW-2B 6-12" = 32.6 mg/kg. • Southwestern TSCA boundary with I206 established by samples I205 VB-2B 0-6" = 26 mg/kg; and I205 VB-3D 0-6" = 30 mg/kg. • Floor established by RI-222+30-N40 12-18" = 0.13 mg/kg; and I205 VW-2B 12-18" = 1.38 mg/kg.
I205b	• TSCA boundary with I205a established by I205 VB-1A 6-12" = 17.3 mg/kg; and I205 VW-2B 6-12" = 32.6 mg/kg. • Boundary with I205c established by I205 VB-1B 12-18" = <0.15 mg/kg. • TSCA boundary with I205c established by I205 VB-1B 0-6" = 41 mg/kg. • Floor established by I205 VB-1B 12-18" = <0.15 mg/kg; and I205 VW-2B 12-18" = 1.38 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I205c	• Upstream TSCA boundary with I205d established by I204 VB-6D 6-12" = 23.7 mg/kg. • Upstream non-TSCA boundary with I205d established by I205 VB-6D 12-18" = 1.16 mg/kg. • Downstream TSCA boundary with I206 established by I205 VW-2B 6-12" = 32.6 mg/kg. • Downstream non-TSCA boundary with I206 established by I205 VW-2B 12-18" = 1.38 mg/kg. • Floor established by I204 VF-6B 18-24" = 3.74 mg/kg.
I205d	• Upstream and upland boundary established by sample RI-220+80-N10 6-12" = 1.8 mg/kg. • Downstream TSCA boundary with I205c established by I204 VB-6D 6-12" = 23.7 mg/kg. • Downstream non-TSCA boundary with I205c established by I205 VB-6D 12-18" = 1.16 mg/kg. • Floor established by samples I205 VB-6D 12-18" = 1.16 mg/kg; and RI-220+80-N10 12-27" = 0.5 mg/kg.
I206	• Upland TSCA boundary with I205a established by samples I205 VB-2B 0-6" = 26 mg/kg; and I205 VB-3D 0-6" = 30 mg/kg. • Upland non-TSCA boundary with I205a established by sample I205 VW-2B 12-18" = 1.38 mg/kg. • Upstream TSCA boundary with I205c established by I205 VW-2B 6-12" = 32.6 mg/kg. • Upstream non-TSCA boundary with I205c established by I205 VW-2B 12-18" = 1.38 mg/kg. • Floor established by sample RI-222+30-N10 24-30" = <0.038 mg/kg. • Downstream boundary established by I204 VW-5A 18-24" = 1.9 mg/kg.
I206a	• Upstream boundary established by I204 VW-5A 18-24" = 1.9 mg/kg. • Upland boundary established by sample I204 VW-7A 12-18" = 0.88 mg/kg; and the polygon line between 7IR and 10IR. • Floor established by sample I204 VW-5A 18-24" = 1.9 mg/kg. • Downstream boundary is established by the polygon line between 7IR and 10IR.
I206b	• Southern and eastern TSCA boundaries are established by the polygon line between 7IR and 8IRb, and samples I204 VB-3J 0-6" = 29 mg/kg; and I204 VB-3H 0-6" = 21.7 mg/kg. • Western boundary with I206a established by sample I204 VW-7A 12-18" = 0.88 mg/kg. • Floor established by sample I204 VW-7A 12-18" = 0.88 mg/kg. • Northern boundary with I206b established with the polygon line between 7IR and 10IR.

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Removal Zone ID	Rationale
I207	• Upland boundary established by I204 VW-8D 0-6" = 2.56; I207 VW-1P 0-6" = 4 mg/kg; I207 VW-1R 0-6" = 3.81 mg/kg; I207 VW-2J 0-6" = 1.56 mg/kg; I207 VW-3J 0-6" = 4.16 mg/kg; I207 VW-4G 0-6"; and I207 VW-5F 0-6". • Floor established by samples I207 VW-1M 6-12" = 1.5 mg/kg; RI-226+00-N140 = 6-12" = 0.18 mg/kg; RI-229+10-N40 6-12" = 0.87 mg/kg; RI-229+10-N60 6-12" = 1 mg/kg; RI-231+30-N60 6-12" = 1.9 mg/kg.
I207a	• TSCA boundaries established by samples I207 VW-1A 0-6" = 31 mg/kg; I207 VW-1A 6-12" = 12.7 mg/kg; I207 VB-1L 0-6" = 41.1 mg/kg; I207 VB-1L 6-12" = 6.67 mg/kg; I207 VB-1E 6-12" = 0.378 mg/kg; I207 VB-1H 6-12" = 0.462 mg/kg. • Non-TSCA boundaries along the northeast and east sides are established by I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg; and the polygon line between 14IR and 10IR. • Floor established by sample I207 VW-1C 12-18" = 0.0656 mg/kg.
I207b	• The non-TSCA boundaries adjacent to I207a are established by I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg; and the polygon line between 14IR and 10IR. • The non-TSCA boundary adjacent to I207c are established by sample I207 VW-3E 6-12" = 1.77 mg/kg. • Floor established by samples I207 VB-1E 6-12" = 0.378 mg/kg; and I207 VB-1H 6-12" = 0.462 mg/kg • Eastern TSCA boundary established by samples I107 VW-1B 0-6" = 18 mg/kg; and I207 VB-1K 0-6" = 12.6 mg/kg.
I207c	• Upland boundary established by sample I207 VW-1M 6-12" = 1.5 mg/kg. • Non-TSCA boundary adjacent to I207b established by sample I207 VW-3E 6-12" = 1.77 mg/kg. • TSCA boundaries established by samples I207 VB-1L 0-6" = 41.1 mg/kg; I207 VB-1M 0-6" = 12.7 mg/kg; I207 VB-1K 0-6" = 12.6 mg/kg; and I207 VW-3E 0-6" = 42 mg/kg. • Floor established by sample I207 VF-1G 12-18" = 0.103 mg/kg.
I207d	• TSCA boundaries with I207a, I207b and I207c established by samples I207 VW-1A 0-6" = 31 mg/kg; I207 VW-1A 6-12" = 12.7 mg/kg; I207 VB-1L 0-6" = 41.1 mg/kg; and I207 VB-1L 6-12" = 6.67 mg/kg. • Upland boundary with I207 established by samples RI-226+00-N100 6-12" = 1.3 mg/kg; RI-226+00-N120 6-12" = 0.035 mg/kg the northern polygon boundary 16IR, continuing towards the intersection with sample I207 VW-1M 6-12" = 1.5 mg/kg. • Floor established by samples RI-225+90-N50 12-18" = 0.75 mg/kg; and RI-226+00-N100 12-24" = 1.1 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I208	• Floor established by samples RI-226+50-N10 12-24" = <0.038 mg/kg; RI-225+90-N10 13-24" = 0.5 mg/kg; and • TSCA boundary with I209 established by sample I209 VB-1D 6-12" = 12.8 mg/kg.
I209	• Upland TSCA boundary with I211b established by samples I209 VB-1G 6-12" = 12.7 mg/kg; and I209 VB-1E 6-12" = 37 mg/kg. • Floor established by samples I209 VB-1B 12-18" = 3.48 mg/kg; and I209 VB-1C 12-18" = 3.43 mg/kg. • Downstream TSCA boundary with I209a established by sample I209 VB-1A 0-6" = 31 mg/kg.
I209a	• Upland boundary established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg; RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg. • Upstream TSCA boundary with I209 established by sample I209 VB-1A 0-6" = 31 mg/kg. • Floor established by samples RI-227+30-N10 12-24" = 0.17 mg/kg; and RI-227+50-N10 12-20" = 3.2 mg/kg. • Downstream TSCA boundary established by sample RI-227+50-N10 0-6" = 32 mg/kg.
I210	• Upstream TSCA boundary established by sample RI-227+50-N10 0-6" = 32 mg/kg. • Upland and downstream boundaries established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg; RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg. • Floor established by sample RI-227+50-N10 12-20" = 3.2 mg/kg.
I211	• Upland TSCA boundary established by sample I211 VB-5A 0-6" = 19.6 mg/kg. • Western TSCA boundary established by samples RI-227+70-N10 0-6" = 48 mg/kg; and I211 VB-1F 0-6" = 45 mg/kg. • Eastern TSCA boundary established by sample I211 VB-1D 0-6" = 45 mg/kg. • Eastern non-TSCA boundary with I211a established by samples I211 VW-2C 6-12" = 0.457; and I211 VW-2D 6-12" = 0.275 mg/kg. • Southern TSCA boundary with I212 established by the polygon line between 13IRa and 14R, with reference to sample RI-227+50-N40 0-6" = 28 mg/kg. • Floor established by samples I211 VW-2C 6-12" = 0.457 mg/kg; I211 VW-2D 6-12" = 0.275 mg/kg; RI-227+50-N70 6-12" = 0.37 mg/kg; RI-227+50-N55 6-12" = 0.28 mg/kg; and RI-226+00-N140 6-12" = 0.18 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I211a	• Eastern TSCA boundary with I211b established by samples I2121 VB-4A 0-6" = 9.58 mg/kg; and I211 VB-3A 0-6" = 16 mg/kg. • Western non-TSCA boundary with I211 established by samples I211 VW-2C 6-12" = 0.457; and I211 VW-2D 6-12" = 0.275 mg/kg. • Southern TSCA boundary with I211b established by the polygon line between 14IR and 13IRb, with reference to sample I209 VB-1B 0-6" = 9.03 mg/kg. • Northern boundary established by the polygon line between 15IR and 16IR, with reference to samples I211 VB-1D 0-6" = 45 mg/kg; RI-226+00-N100 0-6" = 28 mg/kg; and RI-226+00-N100 6-12" = 1.3 mg/kg. • Floor established by samples RI-227+50-N70 12-24" = 0.06 mg/kg; and RI-227+50-N55 12-24" = 0.067 mg/kg.
I211b	• Southern TSCA boundary with I209 established by samples I209 VB-1G 6-12" = 12.7 mg/kg; and I209 VB-1E 6-12" = 37 mg/kg. • Northern boundary established by the polygon line between 15IR and 16IR, with reference to samples RI-226+00-N100 0-6" = 28 mg/kg; and RI-226+00-N100 6-12" = 1.3 mg/kg. • Floor established by sample I209 VB-1B 12-18" = 3.48 mg/kg. • TSCA boundary with I211a established by samples I2121 VB-4A 0-6" = 9.58 mg/kg; and I211 VB-3A 0-6" = 16 mg/kg; and also by the polygon line between 14IR and 13IRb, with reference to sample I209 VB-1B 0-6" = 9.03 mg/kg.
I212	• Upland boundary established by the polygon line between 13IRa and 14IR, with reference to sample RI-227+50-N55 6-12" = 0.28 mg/kg; and RI-227+50-N55 12-24" = 0.067 mg/kg. • Southern boundary established by the polygon line between 13IRa and 13IRb, with reference to samples RI-227+70-N10 0-6" = 24 mg/kg; RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg. • Floor established by sample I212 VF-1A 23-29" = 2.4 mg/kg. • Downstream boundary established by samples RI-227+70-N10 6-12" = 0.31 mg/kg; RI-227+70-N10 12-24" = 0.43 mg/kg.
I213	• Upland boundary established by a location between RI-229+10-N10 6-12" = 8.1 mg/kg; and RI-229+10-N40 0-6" = 0.87 mg/kg. • Floor established by sample RI-229+10-N10 12-20" = 3.3 mg/kg. • Downstream TSCA boundary with I215b established by sample I207 VF-6A 6-12" = 38 mg/kg.

Table 2. Rationale for Removal Boundaries
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Removal Zone ID	Rationale
I214	• Upland boundary established by samples RI-231+30-N40 6-12" = 2.8 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg. • Floor established by sample RI-231+50-N10 12-24" = 0.32 mg/kg. • TSCA boundary with I215 established by samples RI-231+50-N10 6-12" = 32 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg.
I215	• Northern TSCA boundary with I214 established by samples RI-231+50-N10 6-12" = 32 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg. • Upland boundary established by samples I215 VB-3A 6-12" = 3.59 mg/kg; and I215 VB-4A 6-12" = 3.85 mg/kg. • Upstream boundary with I215a established by samples I215 VW-1E 12-18" = 1.98 mg/kg; and by extension of I215 VB-2C 6-12" = 0.536 mg/kg along the polygon line between 19IR and 17IR. • Floor established by samples I215 VW-1E 12-18" = 1.98 mg/kg; I215 VB-1B 12-18" = 0.0614 mg/kg; I215 VB-1F 12-18" = 0.0904 mg/kg; RI-231+10-N10 12-24" = 0.32 mg/kg; and RI-231+30-N10 12-18" = 0.18 mg/kg.
I215a	• Upstream boundary with I215b established by sample I215 VB-2B 12-18" = 1.63 mg/kg. • Upland boundary established by sample I215 VB-2C 6-12" = 0.536 mg/kg. • Downstream boundary established by sample I215 VW-1E 12-18" = 1.98 mg/kg. • Floor established by sample I215 VF-2A 18-24" = 0.0397 mg/kg.
I215b	• Floor and non-TSCA boundary with I215a established by sample I215 VB-2B 12-18" = 1.63 mg/kg. • Upland and upstream boundary established by sample I215 VB-2C 6-12" = 0.536 mg/kg.

Table 3. Proposed Post-Remedial Verification Samples
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Sample ID	In-channel[1] or Overbank	Type	Northing	Easting
I1 PRVF-1A	In-channel	Floor	731366	2472027
I1 PRVF-2A	In-channel	Floor	731448	2471838
I2 PRVF-1A	In-channel	Floor	731703	2471796
I2 PRVF-2A	In-channel	Floor	731806	2471557
I3 PRVF-1A	In-channel	Floor	731969	2471369
I103a PRVF-1A 12-18"	Overbank	Floor	731385	2472000
I106b PRVF-1A 12-18"	Overbank	Floor	731535	2471772
I106e PRVF-1A 12-18"	Overbank	Floor	731857	2471438
I106g PRVF-1A 18-24"	Overbank	Floor	731900	2471395
I205a PRVF-1A 12-18"	Overbank	Floor	731495	2471818
I205b PRVF-1A 12-18"	Overbank	Floor	731483	2471848
I207a PRVF-1A 12-18"	Overbank	Floor	731772	2471782
I209a PRVF-1A 12-18"	Overbank	Floor	731787	2471625
I211 PRVF-3A 6-12"	Overbank	Floor	731872	2471650
I215 PRVF-4A 12-18"	Overbank	Floor	731937	2471375
I215b PRVF-1A 12-18"	Overbank	Floor	731907	2471448

[1] The locations of in-channel samples may be adjusted, or additional in-channel samples may be added, based on visual cues observed during removal.

revision1

RI-231+50-N10	
0-6	26.000
6-12	32.000
12-24	0.320
24-36	NA
36-48	NA

RI-231+30-S50	
0-6	47.000
6-12	11.000
12-20	3.200
20-24	NA

RI-231+30-N40	
0-6	18.000
6-12	2.800
12-18	NA
18-26	NA

RI-231+30-N60	
0-6	25.000
6-12	1.900
12-24	< 0.039
24-36	NA

RI-231+30-N10	
0-6	31.000
6-12	83.000
12-18	0.180

BEGIN REACH J
END REACH I

RI-231+10-N10	
0-6	23.000
6-12	94.000
12-24	0.320
24-36	NA
36-48	NA

RI-229+10-N60	
0-6	34.000
6-12	1.000
12-24	0.310
24-36	NA

RI-229+10-N40	
0-6	27.000
6-12	0.870
12-18	0.054 Q
18-25	NA

RI-227+50-N70	
0-6	68.000
6-12	0.370
12-24	0.060 Q
24-36	NA

RI-231+30-S10	
0-6	16.000
6-12	36.000
12-27	0.340
27-30	NA

RI-229+10-N10	
0-6	31.000
6-12	8.100
12-20	3.300

RI-227+50-N55	
0-6	48.000
6-12	0.280
12-24	0.067 Q
24-36	NA

RI-226+00-N140	
0-6	16.000
6-12	0.180
12-24	NA

RI-227+50-N40	
0-6	28.000
6-12	1.500
12-18	8.400
18-23	20.000

RI-231+30-S80	
0-6	33.000
6-12	0.130 Q
12-18	0.950
18-28	NA

RI-231+30-S25	
0-6	92.000
6-12	7.600
12-21	0.180

RI-227+50-N10	
0-6	32.000
6-12	130.000
12-20	3.200

RI-226+00-N120	
0-6	18.000
6-12	0.035 Q
12-24	NA
24-33	NA

RI-226+00-N100	
0-6	28.000
6-12	1.300
12-24	1.100

RI-229+10-S10	
0-6	7.300
6-12	33.000
12-21	1.600
21-27	NA

RI-227+70-N10	
0-6	24.000
6-12	0.310
12-24	0.430
24-36	NA
36-48	NA

RI-227+30-N10	
0-6	53.000
6-12	6.300
12-24	0.170
24-36	NA
36-48	NA

RI-225+90-N50	
0-6	22.000
6-12	0.610
12-18	0.750

RI-229+10-S40	
0-6	11.000
6-12	4.100
12-24	NA

RI-227+50-S10	
0-6	43.000
6-12	1.500
12-24	0.910

RI-229+10-S75	
0-6	1.500
6-12	0.180
12-24	NA
24-40	NA

RI-225+90-N10	
0-6	14.000
6-12	16.000
12-24	0.500

RI-225+90-S5	
0-6	6.500
6-12	12.000
12-21	2.500
21-27	NA

RI-226+50-N10	
0-6	21.000
6-12	10.000
12-24	< 0.038
24-33	NA

RI-227+50-S40	
0-6	9.300
6-12	0.830
12-18	NA
18-27	NA

RI-225+90-S20	
0-6	19.000
6-12	0.560
12-27	0.250

RI-225+90-S50	
0-6	2.300
6-12	0.490
12-21	NA
21-28	NA

RI-220+80-N40	
0-6	30.000
6-12	1.000
12-18	3.700
18-28	NA

RI-224+50-E10	
0-6	0.810
6-12	NA
12-20	NA

RI-226+00-S100	
0-6	1.400
6-12	0.045 Q
12-24	NA

RI-220+80-N10	
0-6	31.000
6-12	1.800
12-27	0.500

RI-221+00-S30	
0-6	48.000
6-12	0.160
12-18	1.800
18-24	NA

RI-219+50-E30	
0-6	1.800
6-18	1.900
18-21	NA

RI-224+00-W40	
0-6	17.000
6-12	0.260
12-18	NA
18-29	NA

RI-224+00-W10	
0-6	58.000
6-12	18.000
12-24	29.000
24-36	0.210

RI-219+50-E60	
0-6	6.800
6-12	0.540
12-21	NA

RI-222+30-N40	
0-6	57.000
6-12	0.160
12-18	0.130 Q
18-25	NA

RI-222+30-N10	
0-6	16.000
6-12	35.000
12-24	6.500
24-30	< 0.038

BEGIN REACH H
END REACH I

RI-221+60-S10	
0-6	12.000
6-12	12.000
12-21	12.000
21-27	< 0.034

RI-221+00-S10	
0-6	19.000
6-12	45.000
12-24	15.000
24-33	< 0.037

RI-221+60-S25	
0-6	1.600
6-12	0.280
12-20	NA

RI-219+50-E10	
0-6	11.000
6-12	30.000
12-18	8.500
18-27	< 0.043

RI-221+60-S50	
0-6	1.400
6-12	0.260
12-24	NA

RI-218+50-N10	
0-6	17.000
6-12	18.000
12-18	2.600

RI-218+50-S40	
0-6	4.600
6-12	< 0.039
12-18	NA
18-26	NA

RI-218+50-S60	
0-6	41.000
6-12	< 0.040
12-18	0.093 Q
18-33	NA

RI-218+50-S10	
0-6	13.000
6-12	0.360
12-20	NA
20-27	NA

revision

LEGEND

CENTERLINE OF CREEK

SAMPLE LOCATION	
DEPTH IN INCHES	TOTAL PCBs mg/kg

NRT 2005 SOIL SAMPLE LOCATION AND RESULT

RE-125+00-W50 (ET)	0.320

EARTH TECH 2003 SOIL SAMPLE LOCATION AND RESULT

DATA QUALIFIERS:

≥ 50.0	SOIL CONCENTRATIONS THAT ARE EQUAL TO OR GREATER THAN 50.0 mg/kg ARE SHOWN IN RED
≥ 25.0 TO < 50.0	SOIL CONCENTRATIONS THAT ARE GREATER THAN OR EQUAL TO 25.0 BUT LESS THAN 50.0 mg/kg ARE SHOWN IN BLUE
≥ 5.0 TO < 25.0	SOIL CONCENTRATIONS THAT ARE GREATER THAN OR EQUAL TO 5.0 BUT LESS THAN 25.0 mg/kg ARE SHOWN IN GREEN
< 5.0	SOIL CONCENTRATIONS THAT ARE LESS THAN 5.0 mg/kg ARE SHOWN IN BLACK
NA	NOT ANALYZED
Q	ANALYTE DETECTED BELOW THE LIMIT OF QUANTITATION

N

0 50 100

SCALE IN FEET

SOURCE NOTES:
1. THIS DRAWING WAS DEVELOPED FROM A DRAWING IN THE OU2/L & OU3 SAP.
2. ORIGINAL SAMPLE LOCATIONS SURVEYED SEPTEMBER 2005 BY AERO-METRIC, INC. CHILTON, WISCONSIN.
3. STEP-OUT LOCATIONS WERE FIELD MEASURED BY TRC AND NATURAL RESOURCE TECHNOLOGY PERSONNEL DURING OCTOBER AND NOVEMBER 2005. THESE MEASUREMENTS ARE BASED OFF OF THE SURVEYED POINT LOCATIONS.

FIGURE NO. 28

PROJECT NO. 1778/1.6

NATURAL RESOURCE TECHNOLOGY

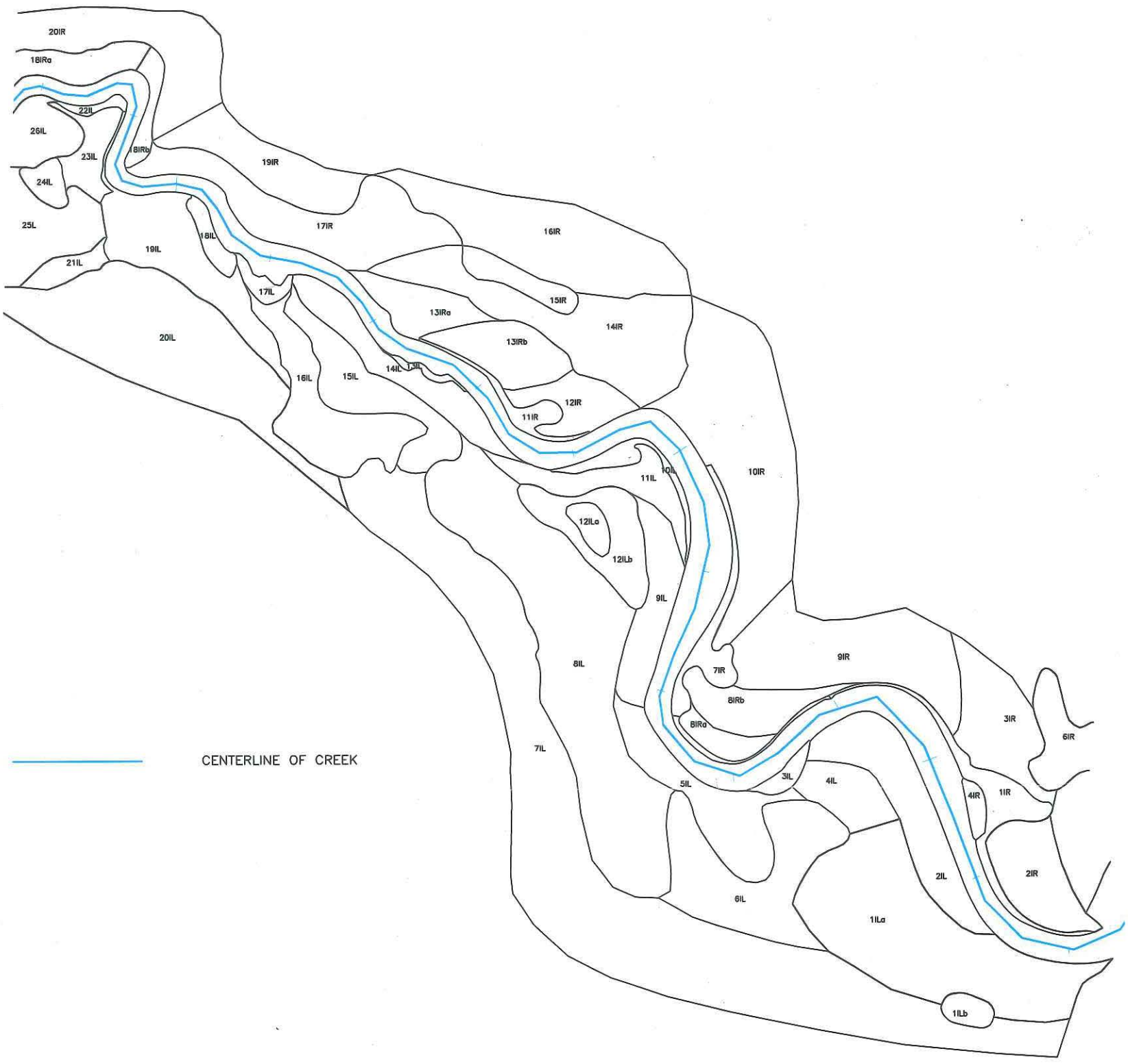
REACH I

HAYTON AREA REMEDIATION PROJECT OVERBANK SAMPLE LOCAITONS AND TOTAL PCB CONCENTRATIONS

DRAWN BY:	RLH/TAS	DATE:	01/18/06
CHECKED BY:	EPK	DATE:	02/07/06
APPROVED BY:	EPK	DATE:	02/15/06

DRAWING NO:1778-16-B03C, LAYOUT I
REF: P:\1778\CAD1778\060111SOILcad_final

Polygon Map - Reach I



CENTERLINE OF CREEK

NATURAL RESOURCE TECHNOLOGY

OVERBANK EXCAVATION LIMITS REACH I

HAYTON AREA REMEDIATION PROJECT
OU2 LOWER/OU3 SCOPE OF WORK

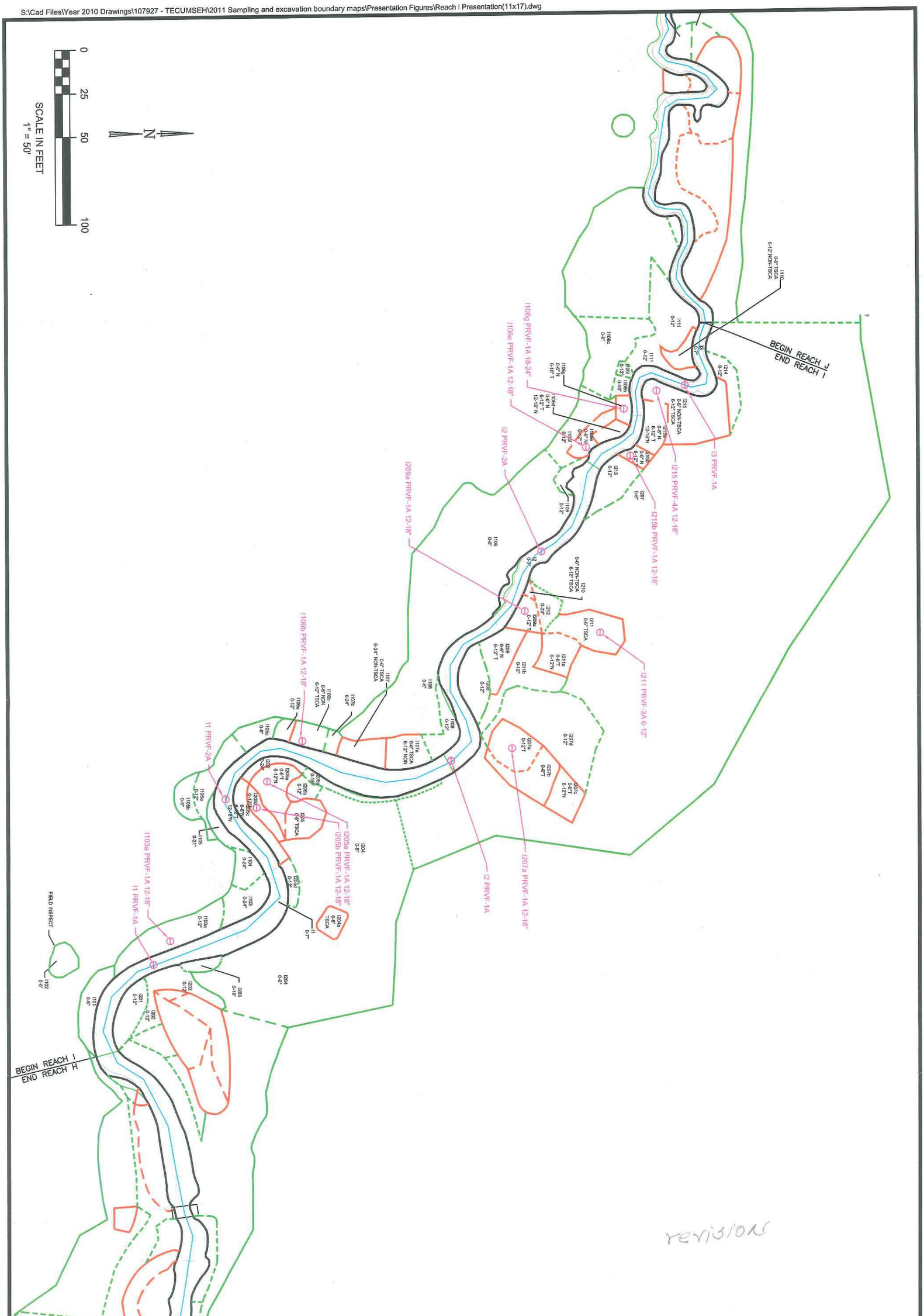
DRAWN BY:	BJK	DATE:	10/04/06
CHECKED BY:	JAZ	DATE:	10/04/06
APPROVED BY:	JAZ	DATE:	10/04/06

DRAWING NO: 1778-23-B10C-02, LAYOUT 1
REF: FIGURE 12B REVISION 1

PROJECT NO. 1778/2.3

FIGURE NO. 12B

S:\Cad Files\Year 2010 Drawings\107927 - TECUMSEH\2011 Sampling and excavation boundary maps\Presentation Figures\Reach I Presentation(11x17).dwg



Revisions

FIGURE NO.	DATE: MAY 2011	SCALE: 1" = 100'
3	DESIGN BY: PD	DRAWN BY: SPA
	SHEET NO. 3 of 3	JOB NUMBER: 107927
	SHEET ID: REACH I PRESENTATION(11X17).DWG	

PROPOSED POST-REMEDIAL
VERIFICATION SAMPLES
REACH I

HAYTON AREA REMEDIATION PROJECT
CALUMET COUNTY, WISCONSIN

TRC
230 WEST MONROE STREET,
SUITE 2370
CHICAGO, IL 60606
PHONE (312) 578-0870
FAX (312) 578-0877

REVISIONS NO.	DATE	COMMENT


REACH I (EAST BANK)
HARP SAMPLE
RESULTS
EXCAVATION
BOUNDARIES
05/23/2011
LEGEND
CENTERLINE OF CREEK
F2 SOFT SEDIMENT EXCAVATION AREA
0–10" AVERAGE SOFT SEDIMENT DEPTH INTERVAL OF EXCAVATION
(>6") MINIMUM DEPTH OF EXCAVATION TO 1 PPM PCBs. (FROM SAMPLE POINT)
PREVIOUS INVESTIGATION SAMPLE (REFER TO ACCOMPANYING FIGURE)
FLOOR SAMPLE LOCATION
WALL SAMPLE LOCATION
TSCA BOUNDARY SAMPLE
EXCAVATION BOUNDARY ALONG CREEK BANK
5 PPM EXCAVATION BOUNDARY
SUBDIVIDER LINE FOR NON-TSCA EXCAVATION DEPTH INTERVALS
50 PPM EXCAVATION BOUNDARY (TSCA)
SUBDIVIDER LINE FOR TSCA EXCAVATION DEPTH INTERVALS
NOTES:
1. COORDINATE SYSTEM IS NAD83, WISCONSIN STATE PLANE, SOUTH ZONE, US FT.
0 25 50 100
SCALE IN FEET
N
2471000 E
2471100 E
2471200 E
2471300 E
2471400 E
2472000 E
2472100 E
2472200 E
2472300 E
2472400 E
732200 N
732100 N
732000 N
731900 N
731800 N
731700 N
731600 N
731500 N
731400 N
731300 N
731200 N
BEGIN REACH J / END REACH I
BEGIN REACH I / END REACH H
SEE NOTE 1
FIELD INSPECT
I110 0-6" TSCA 6-12' NON-TSCA
I214 0-12"
I3 0-7"
I111 0-12"
I215 0-6" NON-TSCA 6-12" TSCA
I215a 0-6" N 6-12" T 12-18"N
I215b 0-6" N 6-12" T
I207 0-6"
I213 0-12"
I106c 0-6"
I106i 0-12"
I106h 0-18"
I106e 0-6" N 6-12" T
I106f 0-12"
I106g 0-6" N 6-18" T
I106d 0-6" N 6-12" T 12-18" N
I109 0-12"
I2 0-7"
I210 0-6" NON-TSCA 6-12" TSCA
I211 0-6" TSCA
I211a 0-6"T 6-12"N
I211b 0-12"
I212 0-23"
I209a 0-12" T
I209 0-6" N 6-12" T
I208 0-12"
I207d 0-12"
I207c 0-6"T 6-12"N
I207b 0-6"T
I207a 0-12"T
I106 0-6"
I108 0-12"
I107a 0-6" TSCA 6-12" NON
I107 0-6" TSCA 6-24" NON-TSCA
I107b 0-24"
I106b 0-6" NON 6-12" TSCA
I106a 0-12"
I105c 0-6"
I206a 0-18"
I206b 0-12"
I205 0-6" TSCA
I205a 0-6"T 6-12"N
I205b 0-12"T
I205c 0-6"N 6-12"T 12-18"N
I205d 0-12"
I204a 0-6" TSCA
I204 0-6"
I1 0-7"
I104 0-24"
I103 0-24"
I103a 0-12"
I105 0-21"
I105a 0-12"
I105b 0-6"
I203 0-18"
I202 0-12"
I201 0-12"
I101 0-6"
I102 0-6"
(>10") (6") (7") (7") (5") (10") (>7") (>13")
I207 VW-4D 0-6" | 35
I207 VW-4C 0-6" | 43
I207 VW-4B 0-6" | 15
I207 VW-4A 0-6" | 43
I215 VB-4A 6-12" | 3.85
DUP 79 | 3.4
I215 VB-1F 6-12" | 100
I215 VB-1F 12-18" | 0.0904
I207 VW-4G 0-6" | 1.15
I207 VW-4F 0-6" | 8.46
I207 VW-4E 0-6" | 30
I207 VW-5F 0-6" | 4.26
I207 VW-5E 0-6" | 31
I207 VW-5D 0-6" | 30
I207 VW-5C 0-6" | 38
I207 VW-5B 0-6" | 35
I207 VW-5A 0-6" | 45
I211 VB-4A 6-12" | 22
I211 VB-4A 0-6" | 9.58
I211 VB-3A 6-12" | 9.01
I211 VB-3A 0-6" | 16
I211 VB-2A 0-6" | 82
I211 VB-2A 6-12" | 8.97
I211 VB-2B 0-6" | 60
I211 VB-2B 6-12" | 9.04
I211 VB-1D 0-6" | 45
I211 VB-1B 0-6" | 52
I211 VB-5A 0-6" | 19.6
I211 VB-1C 0-6" | 81
I211 VB-1A 0-6" | 58
I207 VW-3J 0-6" | 4.16
I207 VW-2A 0-6" | 15
I207 VW-2B 0-6" | 8.8
I207 VW-2C 0-6" | 29
I207 VW-2D 0-6" | 20
I207 VW-2F 0-6" | 14
I207 VW-2G 0-6" | 7.1
I207 VW-2H 0-6" | 5.88
I207 VW-2J 0-6" | 1.56
I211 VB-3B 6-12" | 2.66
I209 VB-1G 6-12" | 12.7
I207 VB-1L 0-6" | 41.1
I207 VB-1L 6-12" | 6.67
I207 VB-1I 0-6" | 89
I207 VW-1P 0-6" | 7.84
I207 VB-1J 0-6" | 52
I207 VW-1C 0-6" | 120
I207 VW-1C 6-12" | 140
DUP 70 | 270
I207 VW-1C 12-18" | 0.0656
I207 VW-1E 0-6" | 49
I207 VB-1E 6-12" | 0.378
I207 VB-1N 0-6" | 8.88
I207 VW-1R 0-6" | 3.81
I207 VB-1M 0-6" | 12.7
I207 VW-1M 6-12" | 1.5
I207 VW-1G 0-6" | 59
I207 VW-1G 6-12" | 14.6
I207 VF-1G 12-18" | 0.103
I207 VW-3E 0-6" | 42
I207 VW-3E 6-12" | 1.77
I207 VW-2E 0-6" | 66
I207 VW-1A 0-6" | 31
I207 VB-1A 6-12" | 12.7
I207 VB-1H 0-6" | 69
I207 VB-1H 6-12" | 0.462
I204 VW-2B 0-6" | 13
I204 VW-2B 6-12" | 38
I204 VW-8C 0-6" | 6.58
I204 VW-8D 0-6" | 2.56
I204 VW-2A 0-6" | 19
I204 VW-2A 6-12" | 1.34
I204 VW-8B 0-6" | 11
I204 VW-7A 6-12" | 32
I204 VW-7A 12-18" | 0.88
I201 VW-3C 0-6" | 0.73
I205 VB-3E 0-6" | 110
I204 VB-3G 0-6" | 23.4
DUP 78 | 23.1
I204 VB-3F 0-6" | 78
I201 VW-2C 0-6" | 1.8
I204 VW-4C 0-6" | 0.952
I204 VW-4B 0-6" | 5.58
I204 VW-1G 0-6" | 3.8
I204 VW-4A 0-6" | 33
I201 VW-1C 0-6" | 12
I204 VB-1F 0-6" | 48
I204 VB-1D 0-6" | 62
DUP 66 | 58
I204 VB-1B 0-6" | 22
I204 VW-1A 0-6" | 52
I204 VB-1A 6-12" | 2.6
I204 VB-1C 0-6" | 24
I204 VB-1E 0-6" | 66
I204 VW-3A 0-6" | 6.3
I202 VW-1C 0-6" | 16
I102 VW-1B 0-6" | 33
I202 VW-1A 0-6" | 44
I203 VW-1I 0-6" | 8.0
DUP 68 | 7.9
I207 VB-1K 0-6" | 12.6
I107 VW-1B 0-6" | 18
I207 VW-2D 0-6" | 41
I207 VW-1F 0-6" | 18
I207 VW-1P 0-6" | 4.0
I207 VW-1D 0-6" | 29
I207 VW-1E 0-6" | 16
I207 VW-1E 6-12" | 6.6
I215 VB-1C 6-12" | 100
I215 VB-1A 6-12" | 86
I215 VB-1E 6-12" | 83
I215 VB-1E 0-6" | 16.8
I215 VW-1E 12-18" | 1.98
I215 VB-1B 0-6" | 25.4
I215 VB-1B 6-12" | 120
I215 VB-1B 12-18" | 0.0614
I215 VB-2A 6-12" | 146
I215 VB-2A 12-18" | 15.6
DUP 90 | 17.1
I215 VF-2A 18-24" | 0.0397
I215 VB-1D 6-12" | 56
I215 VB-3A 6-12" | 3.59
I215 VB-2B 6-12" | 93.8
I215 VB-2B 12-18" | 1.63
I207 VF-6A 6-12" | 38
I215 VB-2C 6-12" | 0.536
I207 VW-3A 0-6" | 39
I207 VW-3B 0-6" | 12
I207 VW-3C 0-6" | 32
I207 VW-3D 0-6" | 48
I207 VW-3F 0-6" | 36
I207 VW-3G 0-6" | 6.81
I207 VW-3H 0-6" | 11.2
I212 VF-1A 23-29" | 2.4
I211 VB-1F 0-6" | 45
I211 VB-1E 0-6" | 55
I211 VW-2C 6-12" | 0.457
I209 VB-1A 0-6" | 31
I209 VB-1A 6-12" | 75
I211 VW-2D 6-12" | 0.275
I209 VB-1B 0-6" | 9.03
I209 VB-1B 6-12" | 76
I209 VB-1B 12-18" | 3.48
I209 VB-1E 6-12" | 37
I209 VB-1C 0-6" | 3.63
I209 VB-1C 6-12" | 63
I209 VB-1C 12-18" | 3.43
I209 VB-1D 6-12" | 12.8
I209 VB-1F 6-12" | 57.4
I204 VW-5A 18-24" | 1.9
I204 VW-5A 6-12" | 25
I204 VW-5A 12-18" | 23
DUP 73 | 47
I205 VB-3D 0-6" | 30
I204 VF-3A 6-12" | 23
I205 VB-3C 0-6" | 55
I205 VB-3C 6-12" | 0.760
I204 VB-3H 0-6" | 21.7
I204 VB-3J 0-6" | 29
I205 VB-3A 0-6" | 63
I205 VB-3B 0-6" | 80
I205 VB-3B 6-12" | 2.38
DUP 83 | 2.34
I205 VB-2A 0-6" | 67
I205 VB-2B 0-6" | 26
I205 VW-2B 6-12" | 32.6
I205 VW-2B 12-18" | 1.38
I205 VB-1A 0-6" | 66
I205 VB-1A 6-12" | 17.3
I205 VB-1B 0-6" | 41
I205 VB-1B 6-12" | 79
I205 VB-1B 12-18" | < 0.15
I204 VB-3I 0-6" | 12.8
I204 VB-6C 6-12" | 72
DUP 76 | 77
I204 VB-6C 12-18" | 9.7
I204 VF-6B 18-24" | 3.74
I204 VB-6D 6-12" | 23.7
I204 VB-6D 12-18" | 1.16
I204 VB-6B 6-12" | 85
I204 VB-6B 12-18" | 15
I204 VB-6C 0-6" | 8.39
I204 VB-6B 0-6" | 5.73
I204 VW-6A 6-12" | 120
I204 VW-6A 12-18" | < 0.14
I202 VF-2A 6-12" | 5.2
DUP 55 | 2.7
I202 VF-2B 12-18" | 4.2

REACH I (WEST BANK)
HARP SAMPLE RESULTS
EXCAVATION BOUNDARIES
05/23/2011

2471000 E
2471100 E
2471200 E
2471300 E
2471400 E
2472000 E
2472100 E
2472200 E
2472300 E
2472400 E

732200 N
732100 N
732000 N
731900 N
731800 N
731700 N
731600 N
731500 N
731400 N
731300 N
731200 N

I110
0-6" TSCA
6-12'
NON-TSCA

BEGIN REACH J
END REACH I

I111
0-12"

I106c
0-6"

I109
0-12"

I2
0-7"

I106
0-6"

I108
0-12"

I107
0-6" TSCA
6-24" NON-TSCA

I107b
0-24"

I106b
0-6" NON
6-12" TSCA

I106a
0-12"

I105c
0-6"

I105
0-21"

I104
0-24"

I103
0-24"

I103a
0-12"

I203
0-18"

I204
0-6"

I101
0-6"

I102
0-6"

FIELD INSPECT

SEE NOTE 1

I110 VB-1A 0-6"	38
I106 VW-7H 6-12"	19.9
I106 VW-7H 12-18"	16.8
I106 VB-7D 6-12"	5
I106 VB-7D 12-18"	90
I106 VW-7D 18-24"	14
DUP 80	135
I106 VW-7M 12-18"	2.86
I106 VF-7A 6-12"	55
I106 VB-7A 12-18"	10
I106 VB-7A 18-24"	1.6
I106 VB-7C 6-12"	99
I106 VB-7C 12-18"	0.96
I106 VW-7C 0-6"	7.34
I106 VW-7E 6-12"	53.6
I106 VW-4A 0-6"	17
I106 VW-4B 0-6"	9.3
I106 VW-4C 0-6"	14
I106 VW-3A 0-6"	41
I106 VW-3B 0-6"	25
I106 VW-4D 0-6"	16.2
I106 VF-6A 6-12"	31
I106 VW-6B 6-12"	36
I106 VB-6C 0-6"	20
I107 VB-2C 0-6"	51
I107 VB-2C 6-12"	10
I107 VB-2C 12-18"	1.5
I107 VB-1A 0-6"	30
I107 VW-1A 6-24"	6.9
I106 VW-1B 6-12"	82
I106 VB-1C 6-12"	67
I105 VW-1A 0-6"	24
I105 VW-1A 6-21"	14
I105 VW-1A 12-18"	0.38
I103 VW-1A 0-6"	42
I103 VW-1A 6-24"	5.6
DUP 54	5.0
I103 VW-1C 6-12"	18
I103 VW-1C 12-18"	< 0.16
I103 VW-2A 0-6"	40
I103 VW-2A 6-24"	4.5
I103 VW-1D 6-12"	20
DUP 75	9.7
I101 VW-3A 0-6"	33
I103 VW-1E 6-12"	15
I101 VW-2A 0-6"	32
I101 VW-1A 0-6"	19
I106 VW-7P 6-12"	4.71
I106 VW-7L 6-12"	38.2
I106 VW-7L 12-18"	4.66
I106 VW-7N 6-12"	1.46
I106 VB-7S 6-12"	4.6
I106 VB-7R 6-12"	5.48
I106 VB-7R 12-18"	0.494
DUP 89	0.165
I106 VW-7K 6-12"	31.8
I106 VW-7G 6-12"	21.6
I106 VB-7B 6-12"	56
I106 VB-7B 12-18"	0.96
I106 VB-7B 18-24"	0.20
I106 VW-7J 6-12"	24.4
I106 VW-7F 6-12"	14.5
I106 VW-5A 0-6"	40
I106 VW-7I 6-12"	11.9
I106 VW-3E 0-6"	3.35
I106 VW-4E 0-6"	1.98
I106 VW-4F 0-6"	11.8
I106 VW-2A 0-6"	22
I106 VW-6C 6-12"	4.8
DUP 69	4.6
I107 VB-2B 0-6"	64
I107 VW-2B 6-12"	10
DUP 67	7.8
I107 VW-2B 12-18"	0.41
I107 VB-2A 0-6"	50
I107 VW-2A 6-24"	8.5
I106 VW-1A 0-6"	40
I106 VW-1A 6-12"	18
I106 VW-1A 12-18"	0.37
I106 VB-1C 0-6"	4.63
I106 VB-1D 6-12"	17.5
I106 VB-1E 6-12"	2.6
I106 VW-8A 0-6"	1.9
I106 VF-8A 6-12"	1.89
I105 VW-2C 6-12"	1.53
I105 VW-28S-12"	6.3
I106 VW-3C 0-6"	15
I106 VW-3D 0-6"	6.3
I105 VW-1C 0-6"	5.1
I105 VW-1D 0-6"	1.5
I105 VW-1B 0-6"	8.6
I105 VW-1B 6-12"	0.29
I105 VW-2A 0-6"	17
I105 VW-2A 6-21"	2.0
I105 VW-2A 6-12"	36
DUP 74	33
I105 VW -2A 12-18"	< 0.22
I102 VW-1A 0-6"	1.2

I211 0-6" TSCA
I210 0-6" NON-TSCA 6-12" TSCA
I211a 0-6"T 6-12"N
I207d 0-12"
I207c 0-6"T 6-12"N
I207b 0-6"T
I207a 0-12"T
I212 0-23"
I212b 0-12"
I209 0-6" N 6-12" T
I208 0-12"
I107a 0-6" TSCA 6-12" NON
I205 0-6" TSCA
I206a 0-18"
I206b 0-12"
I205a 0-6"T 6-12"N
I205b 0-12"T
I205c 0-6"N 6-12"T 12-18"N
I205d 0-12"
I204a 0-6" TSCA
I1 0-7"
I202 0-12"
I201 0-12"
I105a 0-12"
I105b 0-6"
I103a 0-12"
I103b 0-24"
I102a 0-6"
I215 0-6" NON-TSCA 6-12" TSCA
I214 0-12"
I213 0-12"
I212a 0-6" N 6-12" T 12-18"N
I212c 0-6" N 6-12" T
I106d 0-12"
I106h 0-18"
I106g 0-6" N 6-18" T
I106e 0-6" N 6-12" T
I106f 0-12"
I105d 0-6" N 6-12" T 12-18" N
I3 0-7"

(>10")
(6")
(7")
(7")
(5")
(>7")
(>13")

LEGEND

- CENTERLINE OF CREEK
- F2 — SOFT SEDIMENT EXCAVATION AREA
- 0–10" — AVERAGE SOFT SEDIMENT DEPTH INTERVAL OF EXCAVATION
- (>6") — MINIMUM DEPTH OF EXCAVATION TO 1 PPM PCBs. (FROM SAMPLE POINT)
- RH-141+00-E60 — PREVIOUS INVESTIGATION SAMPLE (REFER TO ACCOMPANYING FIGURE)
- FLOOR SAMPLE LOCATION
- WALL SAMPLE LOCATION
- TSCA BOUNDARY SAMPLE
- EXCAVATION BOUNDARY ALONG CREEK BANK
- 5 PPM EXCAVATION BOUNDARY
- SUBDIVIDER LINE FOR NON-TSCA EXCAVATION DEPTH INTERVALS
- 50 PPM EXCAVATION BOUNDARY (TSCA)
- SUBDIVIDER LINE FOR TSCA EXCAVATION DEPTH INTERVALS

NOTES:
1. COORDINATE SYSTEM IS NAD83, WISCONSIN STATE PLANE, SOUTH ZONE, US FT.

0 25 50 100
SCALE IN FEET

N

Reach I 5/23/11

2467900 E
2468000 E
2468100 E
2468200 E
2468300 E
2468400 E
2468500 E
2468600 E
2468700 E
2468800 E
2468900 E
2469000 E

735900 N
735800 N
735700 N
735600 N
735500 N
735400 N
735300 N
735200 N
735100 N
735000 N
734900 N
734800 N
734700 N
734600 N
734500 N

RM 516R 0-6" 3.96
RM 516R 6-12" 0.457
RM BK PRVW 510R
RM PRVF 520R 6-12"
RM PRVF 519R 12-18"
RM 513R 0-6" 1.39
RM 512R 0-6" 1.14
RM IC PRVF 906C
RM 511R 0-6" 0.796
RM PRVF 518R 6-12"
RM BK PRVW 509R
RM IC PRVF 905C
RM PRVF 517R 6-12"
RM BK PRVW 508R
RM BK PRVW 507R
RM 510R 0-6" 2.79
RM 509R 0-6" 1.95
RM IC PRVF 904C
RM PRVF 516R 6-12"
RM BK PRVW 505R
RM IC PRVF 903C
RM 507R 0-6" 1.51
RM BK PRVW 506R
RM 508R 0-6" 1.22
RM 508R 6-12" 0.433
RM 523R 0-6" 3.77
RM 524R 0-6" 2.0
RM 518R 0-6" 8.16
RM 518R 6-12" 1.23
RM 518R 12-18" <0.0343
RM 525R 0-6" 2.72
RM BK PRVW 504R
RM 506R 0-6" 1.65
RM 519R 0-6" 4.4
RM IC PRVF 902C
RM 505R 0-6" 1.26
RM 504R 0-6" 0.567
RM 502R 0-6" 1.8
4MR-PRE-0-6" 8.4
4MR-PRE-6-12" <0.1
RM 522R 0-6" 10.3
RM 522R 6-12" 2.47
RM 522R 12-18" 0.31
RM 514R 0-6" 1.09
RM BK PRVW 503R
RM 517R 0-6" 13.4
DUP 128 13.5
RM 517R 6-12" 10.5
RM 517R 12-18" 1.72
RM 503R 0-6" 0.767
RM 520R 0-6" 1.52
RM 520R 6-12" 0.0498(J)
RM BK PRVW 502R
RM 521R 0-6" 4.34
RM 521R 6-12" 0.289
RM 521R 12-18" 0.056(J)
RM 515R 0-6" 2.22
RM 515R 6-12" 4.62
RM BK PRVW 501R
RM 501R 0-6" 1.92
RM PRVF 515R 6-12"
RM 500R 0-6" 1.58
RM IC PRVF 900C
RM BK PRVW 500R
RM BK PRVW 012L
RM BK PRVW 002L
RM 001L 0-6" 0.87
RM 020L 0-6" 0.696
RM 020L 6-12" 0.176(J)
RM IC PRVF 901C
RM BK PRVW 001L
RM 011L 0-6" 0.926
RM 011L 6-12" 1.9
DUP 87 2.16
RM 015L 0-6" 6.42
RM 012L 0-6" 13
RM 016L 0-6" 8.23
RM 037L 0-6" 2.95
RM 037L 6-12" 3.54
RM 039L 0-6" 6.19
RM 039L 6-12" 4.5
RM 014L 0-6" 2.97
RM 018L 0-6" 7.63
RM 038L 0-6" 4.87
RM 038L 6-12" 3.47
RM 029L 0-6" 1.91
RM 029L 6-12" 6.96
RM 029L 12-18" 1.14
RM 042L 0-6" 1.72
RM 042L 6-12" 4.15
RM 042L 12-18" 6.2
RM 044L 0-6" 20.4
RM 044L 6-12" 0.99
RM 044L 12-18" 0.169(J)
DUP 131 <0.0519
RM BK PRVW 008L
RM 019L 0-6" 4.24
RM 028L 0-6" 8.21
RM 028L 6-12" 7.62
RM 028L 12-18" 8.7
RM 041L 18-24" 1.88
RM 043L 0-6" 6.65
RM 043L 6-12" 12.8
RM 043L 12-18" 2.63
RM 010L 0-6" 2.98
RM PRVF 023L 6-12"
RM 009L 0-6" 3.82
RM BK PRVW 007L
RM 024L 0-6" 2.26
RM 024L 6-12" 1.36
RM 024L 12-18" <0.0386
RM 023L 0-6" 6.02
RM 023L 6-12" 10.7
RM 023L 12-18" 0.428
RM PRVW 032L 0-6"
RM PRVW 032L 6-12"
RM PRVW 030L 12-18"
RM PRVW 030L 18-24"
RM 021L 0-6" 2.85
RM 021L 6-12" 4.2
DUP 114 5.32
RM 021L 12-18" 6.35
RM 021L 18-24" 5.24
RM 021L 24-30" 0.0616(J)
RM 022L 0-6" 4.54
RM 022L 6-12" 0.326
DUP 119 0.536
RM 008L 0-6" 1.37
RM 008L 6-12" 1.32
RM 008L 12-18" 4.27
DUP 123 6.69
RM 025L 12-18" 13.6
RM 025L 18-24" 4.85
RM 007L 0-6" 2.8
RM 007L 6-12" 3.81
RM 036L 12-18" 0.222
RM BK PRVW 006L
RM 027L 0-6" 3.08
RM 027L 6-12" 0.489
RM 027L 12-18" <0.0373
RM PRVF 029L 6-12"
RM 008L 0-6" 3.77
RM PRVF 022L 6-12"
RM 034L 0-6" 1.73
RM 017L 0-6" 3.29
DUP 102 5.9
RM 026L 0-6" 6.86
RM 026L 6-12" 0.264
RM 026L 12-18" 0.0432(J)
RM PRVF 021L 12-18"
RM BK PRVW 005L
RM 033L 0-6" 4.93
RM BK PRVW 004L
RM 035L 0-6" 6.95
DUP 129 4.74
RM 005L 0-6" 1.42
RM 040L 0-6" 3.72
RM 004L 0-6" 2.72
RM 004L 6-12" 0.758
RM 032L 0-6" 7.99
RM 032L 6-12" 10.4
RM PRVF 020L 12-18"
RM 002L 0-6" 2.75
RM 002L 6-12" 0.123
RM 003L 6-12" 0.454
RM PRVF 028L 6-12"
RM BK PRVW 003L
RM 031L 0-6" 4.59
RM PRVF 026L 12-18"
RM PRVF 027L 6-12"
RM PRVF 025L 6-12"
RM BK PRVW 010L
RM PRVF 024L 6-12"
RM PRVF 031L 6-12"
RM BK PRVW 009L
RM PRVF 023L 6-12"

RM-303+30-N70
0-6	12.000
6-12	0.380
12-18	NA
18-24	NA

RM-303+30-N90
0-6	11.000
6-12	0.095 Q
12-24	NA
24-36	NA

RM-303+30-N50
0-6	5.900
6-12	0.300
12-27	NA

RM-303+10-N40
0-6	26.000
6-12	0.700
12-24	0.150 Q
24-36	NA
36-48	NA

RM-303+30-N25
0-6	14.000
6-12	1.100
12-24	NA

RM-303+50-N40
0-6	5.500
6-12	< 0.056
12-24	NA
24-36	NA
42-54	NA

RM-303+30-N10
0-6	8.600
6-12	23.000
12-27	0.270

RM-301+00-N80
0-6	17.000
6-12	< 0.051
12-24	NA
24-36	NA

RM-301+00-N60
0-6	42.000
6-12	0.078 Q
12-18	< 0.073
18-24	NA

RM-301+00-N30
0-6	20.000
6-12	0.160 Q
12-30	0.370

RM-301+00-N10
0-6	15.000
6-12	0.260
12-27	1.500

RM-301+40-N40
0-6	7.200
6-12	1.900
12-24	NA
24-36	NA

RM-299+90-N15
0-6	17.000
6-12	2.400
12-21	2.700

RM-299+90-N60
0-6	2.900
6-12	NA
12-24	NA
24-36	NA

RM-299+90-N40
0-6	5.200
6-12	0.930
12-18	NA
18-33	NA

RM-297+90-E10
0-6	9.000
6-12	0.170
12-24	NA

RM-297+90-E25
0-6	7.600
6-12	0.120 Q
12-27	NA
27-30	NA

RM-297+90-E50
0-6	3.400
6-12	NA
12-18	NA
18-24	NA

RM-298+90-E100
0-6	8.300
6-12	0.370
12-21	NA

RM-298+90-E120
0-6	0.480
6-12	NA
12-15	NA
15-24	NA

RM-296+50-E20
0-6	7.300
6-12	6.500
12-24	0.100 Q

RM-296+50-E50
0-6	2.200
6-12	NA
12-18	NA
18-27	NA

RM-293+30-N40
0-6	0.160
6-12	NA
12-18	NA
18-24	NA

RM-293+30-N10
0-6	19.000
6-12	0.580
12-24	NA

RM-292+30-N10
0-6	9.000
6-12	0.170
12-24	0.130 Q

RM-292+30-N40
0-6	0.780
6-12	NA
12-18	NA
18-27	NA

RM-302+20-S10
0-6	22.000
6-12	16.000
12-30	0.170

RM-302+20-S30
0-6	37.000
6-12	0.880
12-24	0.280

RM-302+20-S70
0-6	36.000
6-12	0.130 Q
12-24	0.072 Q

RM-299+90-S10
0-6	15.000
6-12	12.000
12-24	< 0.047

RM-299+90-S20
0-6	28.000
6-12	1.400
12-24	0.420

RM-299+90-S50
0-6	2.300
6-12	NA
12-18	NA
18-24	NA

RM-302+20-S185
0-6	0.053 Q
6-12	NA
12-18	NA
18-24	NA

RM-301+00-S100
0-6	23.000
6-12	0.150
12-27	< 0.047

RM-298+00-W120
0-6	1.700
6-12	NA
12-15	NA
15-24	NA

RM-296+50-W10
0-6	11.000
6-12	2.300
12-18	NA

RM-296+50-W60
0-6	0.280
6-12	NA
12-18	NA
18-27	NA

RM-296+50-W40
0-6	5.800
6-12	0.260
12-18	NA
18-27	NA

RM-294+20-S10
0-6	28.000
6-12	30.000
12-21	0.120 Q
21-27	NA

RM-294+20-S30
0-6	1.100
6-12	NA
12-21	NA
21-33	NA

RM-293+30-S10
0-6	3.000
6-12	NA
12-24	NA

RM-290+00-W100
0-6	3.800
6-12	NA
12-30	NA

RM-293+30-S30
0-6	11.000
6-12	0.098 Q
12-18	NA
18-30	NA

RM-292+30-S80
0-6	4.400
6-12	NA
12-24	NA

RM-292+30-S40
0-6	7.500
6-12	0.160
12-31	NA
31-33	NA

RM-292+30-S10
0-6	10.000
6-12	28.000
12-24	2.200

RM-289+00-W40
0-6	1.800
6-12	NA
12-18	NA
18-24	NA

RM-289+00-W10
0-6	20.000
6-12	9.400
12-24	0.710

RM-287+50-W50
0-6	0.420
6-12	NA
12-21	NA
21-27	NA

RM-287+50-W30
0-6	5.700
6-12	0.190
12-24	NA

RM-287+50-W5
0-6	7.400
6-12	0.190
12-18	NA
18-24	NA

RM-285+50-W25
0-6	0.210
6-12	NA
12-24	NA

RM-285+50-W5
0-6	1.600
6-12	NA
12-27	NA

RM-285+50-E5
0-6	11.000
6-12	3.800
12-24	NA

RM-285+50-E30
0-6	4.100
6-12	NA
12-21	NA

RM-290+00-E100
0-6	1.800
6-12	NA
12-24	NA

RM-207+50-E15
0-6	3.600
6-12	NA
12-24	NA

N108 0-18"?
N1 0-8"
N201 0-12"
N109 0-12"
N110 0-6"
N202 0-6"
M204 0-6"
M4 0-7"
M109 0-12"
M108 0-12"
M114 0-6"
M113 0-12"
M187 0-6"
M112 0-24"
M203 0-12"
M108 0-6"
M3 0-6"
M207 0-6"
M110 0-12"
M105 0-24"
M104 0-6"
M103 0-12"
M2 0-7"
M202 0-6"
M111 0-6"
M201A 0-6"
M206 0-12"
M102 0-12"
M101 0-6"
M201 0-6"
M1 0-12"
L206 0-6"
L204 0-6"
L107 0-6"

BEGIN REACH N
END REACH M
BEGIN REACH M
END REACH L

2NR
3NR
1NR
19MR
20MR
18MR
16MR
15MR
14MR
13MR
17ML
21ML
19ML
17MR
20ML
15ML
14ML
12MR
10MR
1MR
9MR
8MR
7MR
6MR
5MR
4MR
12ML
11MLa
11MLb
10ML
8ML
7ML
6ML
5ML
4ML
3ML
2ML
1ML
13LR
14LR
12LR

LEGEND

- CENTERLINE OF CREEK
- F2 — SOFT SEDIMENT EXCAVATION AREA
- 0–10" — AVERAGE SOFT SEDIMENT DEPTH INTERVAL OF EXCAVATION
- RF-147+00-E60 — FLOOR SAMPLE LOCATION
- WALL SAMPLE LOCATION
- TSCA BOUNDARY SAMPLE
- POLYGON BOUNDARY LINE
- EXCAVATION BOUNDARY ALONG CREEK BANK
- 5 PPM EXCAVATION BOUNDARY
- SUBDIVIDER LINE FOR NON–TSCA EXCAVATION DEPTH INTERVALS
- 50 PPM EXCAVATION BOUNDARY (TSCA)
- SUBDIVIDER LINE FOR TSCA EXCAVATION DEPTH INTERVALS

NOTES:
1. COORDINATE SYSTEM IS NAD83, WISCONSIN STATE PLANE, SOUTH ZONE, US FT.

0 25 50 100
SCALE IN FEET

SAMPLE RESULTS,EXCAVATION BOUNDARIES, AND PROPOSED PRV SAMPLES
REACH M
HAYTON AREA REMEDIATION PROJECT

DRAWN BY:	SPA	DATE:	10/12/2011
PROJECT NO:	107927	DWG:	SAMPLING PRESENTATION SHEETS

TRC
230 WEST MONROE STREET
SUITE 2370
CHICAGO, IL. 60606
312-578-0870

FIGURE 1

2471000 E
2471100 E
2471200 E
2471300 E
2471400 E
2472000 E
2472100 E
2472200 E
2472300 E
2472400 E

732200 N
732100 N
732000 N
731900 N
731800 N
731700 N
731600 N
731500 N
731400 N
731300 N
731200 N

I110
0-6" TSCA
6-12'
NON-TSCA

BEGIN REACH J
END REACH I

I111
0-12"

I111
0-12"

I106c
0-6"

FIELD INSPECT

I109
0-12"

I2
0-7"

I106
0-6"

I213
0-12"

I207
0-6"

I214
0-12"

I3
0-7"

I215
0-6" NON-TSCA
6-12" TSCA

I215a
0-6" N
6-12" T
12-18"N

I210
0-6" NON-TSCA
6-12" TSCA

I211
0-6" TSCA

I211a
0-6"T
6-12"N

I207d
0-12"

I207c
0-6"T
6-12"N

I207b
0-6"T

I207a
0-12"T

I212
0-12"

I211b
6-12"

I209
0-6" N
6-12" T

I208
0-12"

I108
0-12"

I107
0-6" TSCA
6-24" NON-TSCA

I107a
0-6" TSCA
6-12" NOW

I107b
0-24"

I106b
0-6" NON
6-12" TSCA

I106a
0-12"

I204
0-6"

I204a
0-6" TSCA

I206a
0-18"

I206b
0-12"

I205
0-6" TSCA

I205d
0-12"

I205a
0-6"T
6-12"N

I205b
0-12"T

I205c
0-6"N
6-12"T
12-18"N

I105c
0-6"

I106
0-6"

I1
0-7"

I104
0-24"

I103
0-24"

I103a
0-12"

I105
0-21"

I105a
0-12"

I105b
0-6"

I204
0-6"

I203
0-18"

I202
0-12"

I201
0-12"

I101
0-6"

I102
0-6"

FIELD INSPECT

SEE NOTE 1

(>10")
(6")
(7")
(7")
(5")
(>10")
(>7")
(>13")

I106 VW-7P 6-12" 4.71

I106 VW-7L 6-12" 38.2
I106 VW-7L 12-18" 4.66

I106 VW-7N 6-12" 1.46

I106 VB-7S 6-12" 4.6

I106 VB-7R 6-12" 5.48
I106 VB-7R 12-18" 0.494
DUP 69 0.165

I106 VW-7K 6-12" 31.8

I106 VW-7G 6-12" 21.8

I106 VB-7B 6-12" 56
I106 VB-7B 12-18" 0.96
I106 VB-7B 18-24" 0.20

I110 VB-1A 0-6" 38

I106 VW-7H 6-12" 19.9
I106 VW-7H 12-18" 16.8

I106 VB-7D 6-12" 55
I106 VB-7D 12-18" 130
I106 VW-7D 18-24" 1.4
DUP 80 1.35

I106 VW-7M 12-18" 2.86

I106 VF-7A 6-12" 55
I106 VB-7A 12-18" 10
I106 VB-7A 18-24" 1.6

I106 VB-7C 6-12" 99
I106 VB-7C 12-18" 0.96
I106 VW-7C 0-6" 7.34

I106 VW-7E 6-12" 53.6

I106 VW-4A 0-6" 17

I106 VW-4B 0-6" 9.3

I106 VW-4C 0-6" 14

I106 VW-3A 0-6" 41

I106 VW-3B 0-6" 25

I106 VW-4D 0-6" 16.2

I106 VF-6A 6-12" 31

I106 VW-6B 6-12" 36

I106 VB-6C 0-6" 20

I107 VB-2C 0-6" 51
I107 VB-2C 6-12" 10
I107 VB-2C 12-18" 1.5

I107 VB-1A 0-6" 30
I107 VW-1A 6-24" 6.9

I106 VW-1B 6-12" 92

I106 VB-1C 6-12" 67

I105 VW-1A 0-6" 24
I105 VW-1A 6-21" 14
I105 VW-1A 12-18" 0.38

I103 VW-1A 0-6" 42
I103 VW-1A 6-24" 5.6
DUP 54 5.0

I103 VW-1C 6-12" 18
I103 VW-1C 12-18" < 0.16

I103 VW-2A 0-6" 40
I103 VW-2A 6-24" 4.5

I103 VW-1D 6-12" 20
DUP 75 9.7

I101 VW-3A 0-6" 33

I103 VW-1E 6-12" 15

I101 VW-2A 0-6" 32

I101 VW-1A 0-6" 19

I106 VW-3C 0-6" 15

I106 VW-3D 0-6" 6.3

I106 VW-7J 6-12" 24.4
I106 VW-7F 6-12" 14.5

I106 VW-5A 0-6" 40
I106 VW-7I 6-12" 11.9

I106 VW-3E 0-6" 3.35

I106 VW-4E 0-6" 1.98
I106 VW-4F 0-6" 11.8
I106 VW-2A 0-6" 22

I106 VW-6C 6-12" 4.8
DUP 69 4.6

I107 VB-2B 0-6" 64
I107 VW-2B 6-12" 10
DUP 67 7.8
I107 VW-2B 12-18" 0.41

I107 VB-2A 0-6" 50
I107 VW-2A 6-24" 8.5

I106 VW-1A 0-6" 40
I106 VW-1A 6-12" 18
I106 VW-1A 12-18" 0.37

I106 VB-1C 0-6" 4.63

I106 VB-1D 6-12" 17.5

I106 VB-1E 6-12" 12.6

I106 VW-8A 0-6" 9.9
I106 VF-8A 6-12" 0.89

I105 VW-2C 6-12" 2.53

I105 VW-2B 6-12" 6.3

I105 VW-1C 0-6" 5.1

I105 VW-1D 0-6" 1.5

I105 VW-1B 0-6" 8.6
I105 VW-1B 6-12" 0.29

I105 VW-2A 0-6" 17
I105 VW-2A 6-21" 2.0
I105 VW-2A 6-12" 36
DUP 74 33
I105 VW -2A 12-18" < 0.22

I103 VW-1B 0-6" 42
I103 VW-1B 6-12" 0.44

I102 VW-1A 0-6" 1.2

N

LEGEND

- CENTERLINE OF CREEK
- F2 — SOFT SEDIMENT EXCAVATION AREA
- 0–10" — AVERAGE SOFT SEDIMENT DEPTH INTERVAL OF EXCAVATION
- (>6") — MINIMUM DEPTH OF EXCAVATION TO 1 PPM PCBs. (FROM SAMPLE POINT)
- RF-147+00-E60 — PREVIOUS INVESTIGATION SAMPLE (REFER TO ACCOMPANYING FIGURE)
- FLOOR SAMPLE LOCATION
- WALL SAMPLE LOCATION
- TSCA BOUNDARY SAMPLE
- EXCAVATION BOUNDARY ALONG CREEK BANK
- 5 PPM EXCAVATION BOUNDARY
- SUBDIVIDER LINE FOR NON–TSCA EXCAVATION DEPTH INTERVALS
- 50 PPM EXCAVATION BOUNDARY (TSCA)
- SUBDIVIDER LINE FOR TSCA EXCAVATION DEPTH INTERVALS

NOTES:
1. COORDINATE SYSTEM IS NAD83, WISCONSIN STATE PLANE, SOUTH ZONE, US FT.

0 25 50 100
SCALE IN FEET

SAMPLE RESULTS AND EXCAVATION BOUNDARIES REACH I (WEST BANK)

HAYTON AREA REMEDIATION PROJECT

DRAWN BY:	SPA	DATE:	05/25/2011
PROJECT NO:	107927	DWG FILE:	Reach I Presentation

TRC
230 WEST MONROE STREET
SUITE 2370
CHICAGO, IL 60606
312-578-0870

FIGURE 2

2471000 E
2471100 E
2471200 E
2471300 E
2471400 E
2472000 E
2472100 E
2472200 E
2472300 E
2472400 E
732200 N
732100 N
732000 N
731900 N
731800 N
731700 N
731600 N
731500 N
731400 N
731300 N

N

I207 VW-4D 0-6"	35
I207 VW-4C 0-6"	43
I207 VW-4B 0-6"	15
I207 VW-4A 0-6"	43
I215 VB-4A 6-12"	3.85
DUP 79	3.4
I215 VB-1F 6-12"	100
I215 VB-1F 12-18"	0.0904

I207 VW-4G 0-6"	1.15
I207 VW-4F 0-6"	8.46
I207 VW-4E 0-6"	30

I211 VB-4A 6-12"	22
I211 VB-4A 0-6"	9.58
I211 VB-3A 6-12"	9.01
I211 VB-3A 0-6"	16
I211 VB-2A 0-6"	82
I211 VB-2A 6-12"	8.97
I211 VB-2B 0-6"	60
I211 VB-2B 6-12"	9.04

I207 VW-2A 0-6"	15
I207 VW-2B 0-6"	8.8
I207 VW-2C 0-6"	29
I207 VW-2D 0-6"	20
I207 VW-2F 0-6"	14
I207 VW-2G 0-6"	7.1

I207 VW-2H 0-6"	5.88
I207 VW-2J 0-6"	1.56

I207 VW-5F 3-6"	4.26
I207 VW-5E 0-6"	31
I207 VW-5D 0-6"	30
I207 VW-5C 0-6"	38
I207 VW-5B 0-6"	35
I207 VW-5A 0-6"	45

I211 VB-1D 0-6"	45
I211 VB-1B 0-6"	52
I211 VB-5A 0-6"	19.6
I211 VB-1C 0-6"	81
I211 VB-1A 0-6"	58
I207 VW-3J 0-6"	4.16

I211 VB-3B 6-12"	2.66
I209 VB-1G 6-12"	12.7
I207 VB-1L 0-6"	41.1
I207 VB-1L 6-12"	6.67
I207 VB-1I 0-6"	89
I207 VW-1P 0-6"	7.84
I207 VB-1J 0-6"	52
I207 VW-1C 0-6"	120
I207 VW-1C 6-12"	140
DUP 70	270
I207 VW-1C 12-18"	0.0656
I207 VW-1E 0-6"	49
I207 VB-1E 5-12"	0.378
I207 VB-1N 0-6"	8.88
I207 VW-1R 0-6"	3.81

I207 VB-1M 0-6"	12.7
I207 VW-1M 6-12"	1.5
I207 VW-1G 0-6"	59
I207 VW-1G 6-12"	14.6
I207 VF-1G 12-18"	0.103
I207 VW-3E 0-6"	42
I207 VW-3E 6-12"	1.77
I207 VW-2E 0-6"	66
I207 VW-1A 0-6"	31
I207 VB-1A 6-12"	12.7
I207 VB-1H 0-6"	69
I207 VB-1H 6-12"	0.462

I207 VB-1K 0-6"	12.6
I107 VW-1B 0-6"	18
I207 VW-2D 0-6"	41
I207 VW-1F 0-6"	18
I207 VW-1P 0-6"	4.0

I204 VW-2B 0-6"	13
I204 VW-2B 6-12"	38
I204 VW-8C 0-6"	6.58
I204 VW-8D 0-6"	2.56
I204 VW-2A 0-6"	19
I204 VW-2A 6-12"	1.34
I204 VW-8B 0-6"	11
I204 VW-7A 6-12"	32
I204 VW-7A 12-18"	0.88
I201 VW-3C 0-6"	0.73
I205 VB-3E 0-6"	110
I204 VB-3G 0-6"	23.4
DUP 78	23.1
I204 VB-3F 1-6"	78

I201 VW-2C 0-6"	1.8
I204 VW-4C 0-6"	0.952
I204 VW-4B 0-6"	5.58
I204 VW-1G 0-6"	3.8
I204 VW-4A 0-6"	33
I201 VW-1C 0-6"	12
H201 VW-5C 0-6"	1.8
I204 VB-1F 0-6"	48
I204 VB-1D 0-6"	62
DUP 66	58
I204 VB-1B 0-6"	22
I204 VW-1A 0-6"	52
I204 VB-1A 6-12"	2.6
I204 VB-1C 0-6"	24
I204 VB-1E 0-6"	66
I204 VW-3A 0-6"	6.3
H201 VW-1D 0-6"	4.7
I202 VW-1C 0-6"	16
I102 VW-1B 0-6"	33
I202 VW-1A 0-6"	44

I203 VW-1I 0-6"	8.0
DUP 68	7.9

I207 VW-1D 0-6"	29
I207 VW-1E 0-6"	16
I207 VW-1E 6-12"	6.6

I202 VF-2A 6-12"	5.2
DUP 55	2.7
I102 VF-2B 12-18"	4.2
I204 VB-3A 0-6"	48

I204 VB-6D 6-12"	23.7
I204 VB-6D 12-18"	1.16
I204 VB-6B 6-12"	85
I204 VB-6B 12-18"	15
I204 VB-5C 0-6"	8.39
I204 VB-6B 0-6"	5.73
I204 VW-5A 6-12"	120
I204 VW-5A 12-18"	< 0.14

I204 VB-3I 0-6"	12.8
I204 VB-6C 6-12"	72
DUP 76	77
I204 VB-6C 12-18"	9.7
I204 VF-6B 18-24"	3.74

I215 VB-1C 6-12"	100
I215 VB-1A 6-12"	86
I215 VB-1E 6-12"	83
I215 VB-1E 0-6"	16.8
I215 VW-1E 12-18"	1.98
I215 VB-1B 0-6"	25.4
I215 VB-1B 6-12"	120
I215 VB-1B 12-18"	0.0614
I215 VB-2A 6-12"	146
I215 VB-2A 12-18"	15.6
DUP 90	17.1
I215 VF-2A 18-24"	0.0397
I215 VB-1D 6-12"	56
I215 VB-3A 6-12"	3.59
I215 VB-2B 6-12"	93.8
I215 VB-2B 12-18"	1.83
I207 VF-5A 6-12"	38
I215 VB-2C 6-12"	0.536
I207 VW-3A 0-6"	39

I207 VW-3B 0-6"	12
I207 VW-3C 0-6"	32
I207 VW-3D 0-6"	48

I207 VW-3F 0-6"	36
I207 VW-3G 0-6"	6.81
I207 VW-3H 0-6"	11.2
I212 VF-1A 23-29"	2.4
I211 VB-1F 0-6"	45
I211 VB-1E 0-6"	55

I211 VW-2C 6-12"	0.457
I209 VB-1A 0-6"	31
I209 VB-1A 6-12"	75
I211 VW-2D 6-12"	0.275
I209 VB-1B 0-6"	9.03
I209 VB-1B 6-12"	76
I209 VB-1B 12-18"	3.48
I209 VB-1E 6-12"	37
I209 VB-1C 0-6"	3.83
I209 VB-1C 6-12"	63
I209 VB-1C 12-18"	3.43
I209 VB-1D 6-12"	12.8
I209 VB-1F 6-12"	57.4
I204 VW-5A 18-24"	1.9
I204 VW-5A 6-12"	25
I204 VW-5A 12-18"	23
DUP 73	47
I205 VB-3D 0-6"	30
I204 VF-3A 6-12"	23
I205 VB-3C 0-6"	55
I205 VB-3C 6-12"	0.760
I204 VB-3H 0-6"	21.7
I204 VB-3J 0-6"	29
I205 VB-3A 0-6"	63
I205 VB-3B 0-6"	80
I205 VB-3B 6-12"	2.38
DUP 83	2.34
I205 VB-2A 0-6"	67
I205 VB-2B 0-6"	26
I205 VW-2B 6-12"	32.6
I205 VW-2B 12-18"	1.38
I205 VB-1A 0-6"	66
I205 VB-1A 6-12"	17.3

I205 VI-1B 0-6"	41
I205 VI-1B 6-12"	79
I205 VI-1B 12-18"	< 0.15

I110
0-6" TSCA
6-12'
NON-TSCA

BEGIN REACH I
END REACH I

I214
0-12"

I3
0-7"

I215
0-6" NON-TSCA
6-12" TSCA

I215a
0-6" N
6-12" T
12-18"N

I215b
0-6" N
6-12" T

I111
0-12"

I106i
0-12"

I105h
0-18"

I207
0-6"

I213
0-12"

I106c
0-6"

I105g
0-6" N
6-18" T

I106d
0-6" N
6-12" T
12-18" N

I106f
0-12"

I105f
0-6" N
6-12" T

I109
0-12"

I2
0-7"

I2a
0-23"

I209a
0-12" T

I209
0-6" N
6-12" T

I106
0-6'

I211
0-6" TSCA

I211a
0-6" T
6-12"N

I211b
0-12"

I210
0-6" NON-TSCA
6-12" TSCA

I207d
0-12"

I207c
0-6"T
6-12"N

I207b
0-6"T

I207a
0-12"T

I208
0-12"

I108
0-12"

I106
0-6"

I107a
0-6" TSCA
6-12" NON

I107
0-6" TSCA
6-24" NON-TSCA

I107b
0-24"

I106b
0-6" NON
6-12" TSCA

I106a
0-12"

I206a
0-18"

I206b
0-12"

I205
0-6" TSCA

I205a
0-6"
6-12"N

I205b
0-12"T

I205c
6-6"N
6-12"T
12-18"N

I105c
0-6"

I106e
0-6"

I105a
0-12"

I105
0-21"

I205d
0-12"

I204
0-6"

I104
0-24"

I103
0-24"

I103a
0-12"

I203
0-18"

I202
0-12"

I201
0-12"

I101
0-6"

I102
0-6"

I1
0-7"

I204a
0-6"

(>10")
(6")
(7")
(7")
(5")
(>7")
(>13")

FIELD INSPECT
FIELD INSPECT
SEE NOTE 1

LEGEND

- CENTERLINE OF CREEK
- F2 — SOFT SEDIMENT EXCAVATION AREA
- 0–10" — AVERAGE SOFT SEDIMENT DEPTH INTERVAL OF EXCAVATION
- (>6") — MINIMUM DEPTH OF EXCAVATION TO 1 PPM PCBs. (FROM SAMPLE POINT)
- BF-147+00-030 — PREVIOUS INVESTIGATION SAMPLE (REFER TO ACCOMPANYING FIGURE)
- FLOOR SAMPLE LOCATION
- WALL SAMPLE LOCATION
- TSCA BOUNDARY SAMPLE
- EXCAVATION BOUNDARY ALONG CREEK BANK
- 5 PPM EXCAVATION BOUNDARY
- SUBDIVIDER LINE FOR NON-TSCA EXCAVATION DEPTH INTERVALS
- 50 PPM EXCAVATION BOUNDARY (TSCA)
- SUBDIVIDER LINE FOR TSCA EXCAVATION DEPTH INTERVALS

NOTES:
1. COORDINATE SYSTEM IS NAD83, WISCONSIN STATE PLANE, SOUTH ZONE, US FT.

0 25 50 100

SCALE IN FEET

SAMPLE RESULTS AND EXCAVATION BOUNDARIES REACH I (EAST BANK)

HAYTON AREA REMEDIATION PROJECT

DRAWN BY:	SPA	DATE:	05/25/2011
PROJECT NO:	107927	DWG FILE:	Reach I Presentation

TRC
230 WEST MONROE STREET
SUITE 2370
CHICAGO, IL 60606
312-578-0870

FIGURE 1

G:\CAD FILES\YEAR 2010 DRAWINGS\107927 - TECUMSEH\SHT1 SAMPLING AND EXCAVATION BOUNDARY MAP\PRESENTATION\FIGURES\REACH I PRESENTATION.DWG

revision